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**ANTHROPOMETRIC SIZING SYSTEMS  
FOR ARMY WOMEN'S FIELD CLOTHING**

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by

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Yellow Springs, Ohio

March 1981

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<p>This report contains a series of anthropometrically-based sizing programs and tariffs for Army women's field clothing. Included here are size systems for upper body, lower body and total body garments. Designed for use by clothing designers and pattern makers, this document consists in large part of sizing tables on which recommended values for some 59 dimensions relevant to garment construction are highlighted for easy identification. Regression equations, rather than more traditional methods, were used to develop the sizing data in this report which also contains sufficient supportive material</p>		

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20. ABSTRACT (continued)

to permit designers to modify suggested dimensional values or to compute alternative sizing programs.

A visual index accompanied by measurement descriptions, and bivariate distribution tables on which size categories have been graphically superimposed serve as visual references for users. A glossary of terms is also included.

Source of the dimensional data used in this report was a survey of 1,330 U.S. Army women conducted in 1976-77.

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## PREFACE

The data in this report were assembled and computed by the staff of the Anthropology Research Project in Yellow Springs, Ohio, under the direction of senior investigator, John T. McConville. The work was done under contract No. DAAK60-79-C-0097 with the U.S. Army Natick Research and Development Laboratories, Natick, Massachusetts, and benefitted considerably from the guidance offered by Robert M. White who acted as contract monitor.

Thanks are due to Ilse Tebbetts who contributed her editorial skills to the organization and writing of this report and to Jane Reese who patiently and expertly typed and retyped the manuscript through its various permutations.

Credit for the graphics goes to Kay Downing who executed most of the original drawings which appear here and to Ron Robinette who laid them out and marked them for identification.

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# ANTHROPOMETRIC SIZING SYSTEMS FOR ARMY WOMEN'S FIELD CLOTHING

## INTRODUCTION

There has been a steady increase in the number and types of jobs filled by women in the U.S. Army in recent years. Indeed, it is no longer unrealistic to envision the likelihood of women filling combat roles. This trend presents an ever-growing need for women's field clothing which fulfills the same functions required of comparable men's garments.

The 1977 Army women's survey provides a valuable source of sizing data for the development of such clothing. Most of the 69 dimensions which constitute the core group of measurements taken in that survey are directly applicable to clothing design and are used as the basis for the sizing programs presented in this report.

Three separate sizing systems have been developed and described in this report for the use of designers and pattern makers charged with designing different types of women's field clothing. Included here are (1) sizing programs for upper body garments using the key dimensions of bust circumference and stature; (2) sizing programs for lower body garments employing hip circumference and crotch height as key dimensions, and (3) total body sizing programs based on the dimensions of stature and weight chiefly for consideration in the design of such one-piece garments as chemical defense (CD) suits and combat vehicular crew (CVC) coveralls.

The total number of dimensions used in these sizing systems was 59 of which nine were derived from measured dimensions. The dimensions used were selected and derived from the core series of measurements taken in the 1977 Army women's survey (Churchill et al., 1977)<sup>1</sup> with the exception of those involving cervicale height. Cervicale height was measured in the traditional series and predicted for every subject in the core series, using a stepwise regression from acromion height, waist back, and shoulder length. The selection of dimensions was limited to those which have been found to be of most use in developing sizing programs. All the dimensions were employed in the total body sizing system. For the sizing systems developed for upper and lower body garments, we used only those dimensions relevant to the upper or lower portions of the body, 46 and 25, respectively. Appearing on the following pages are illustrations of the measured dimensions (Figures 1-4), definitions for all dimensions, and the total sample summary statistics (Table 1).

Tables 20 through 121 in Chapter IV contain the statistical material directly relevant to the sizing of clothing patterns. Highlighted on these

---

<sup>1</sup>Churchill, E., T. Churchill, J.T. McConville and R.M. White. Anthropometry of Women of the U.S. Army-1977; Report No. 2 - The Basic Univariate Statistics. Technical Report NATICK/TR-77/024, U.S. Army Natick Research and Development Command, Natick, Mass., 1977. (AD A044 806)

tables is a series of recommended size values for each dimension in each of the sizing programs. With additions for easing and seam allowances, these can be used by the designer or pattern maker to arrive at final design values for a given garment.

The dimensions are arranged, throughout this report, by type of measurement as follows: heights, lengths, circumferences, arcs, and depths and breadths. Within each category, dimensions are ordered alphabetically. Each measured dimension is designated by the same number originally assigned to it when the survey was documented; new numbers were assigned to the derived dimensions.



THE VISUAL INDEX (Figures 1 - 4)

1977 ARMY WOMEN'S SURVEY: SUMMARY  
STATISTICS AND SELECTED PERCENTILES

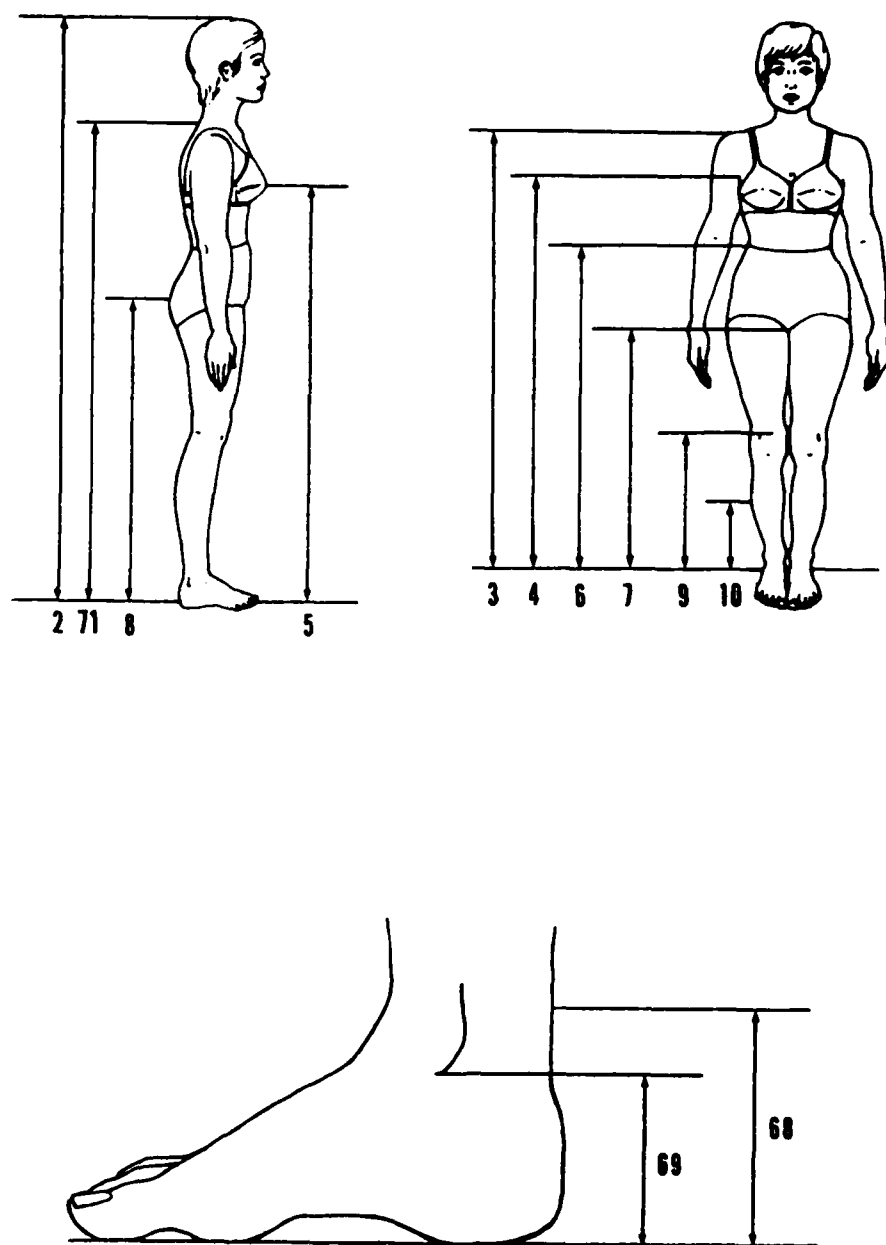


Figure 1. The visual index: heights.

WEIGHT (1): weight of subject wearing panties and bra (not pictured).

#### HEIGHTS

ANKLE HEIGHT (68): the height of the level of minimum circumference of the ankle.

AXILLA HEIGHT (4): vertical distance from floor to armpit.

BUSTPOINT HEIGHT (5): vertical distance from floor to tip of the bra.

BUTTOCK HEIGHT (8): vertical distance from floor to the point of maximum protrusion of the buttock.

CALF HEIGHT (10): vertical distance from floor to the level of the maximum circumference of the calf.

CERVICALE HEIGHT (71): a derived dimension representing the vertical distance from the standing surface to the top of the 7th cervical vertebra. This was predicted for each subject from acromion height, waist back length, and shoulder length, using the regression equation created from the traditional subseries in which cervicale height was measured.

CROTCH HEIGHT (7): vertical distance from floor to midpoint of crotch.

KNEECAP HEIGHT (9): vertical distance from floor to top of the kneecap (patella).

SHOULDER HEIGHT (3): vertical distance from floor to acromion, the lateral edge of the acromial process of the shoulder.

SPHYRION HEIGHT (69): the height of the most distal extension of the tibia on the inside of the foot.

STATURE (2): vertical distance from floor to top of the head.

WAIST HEIGHT (6): vertical distance from floor to natural waist level.

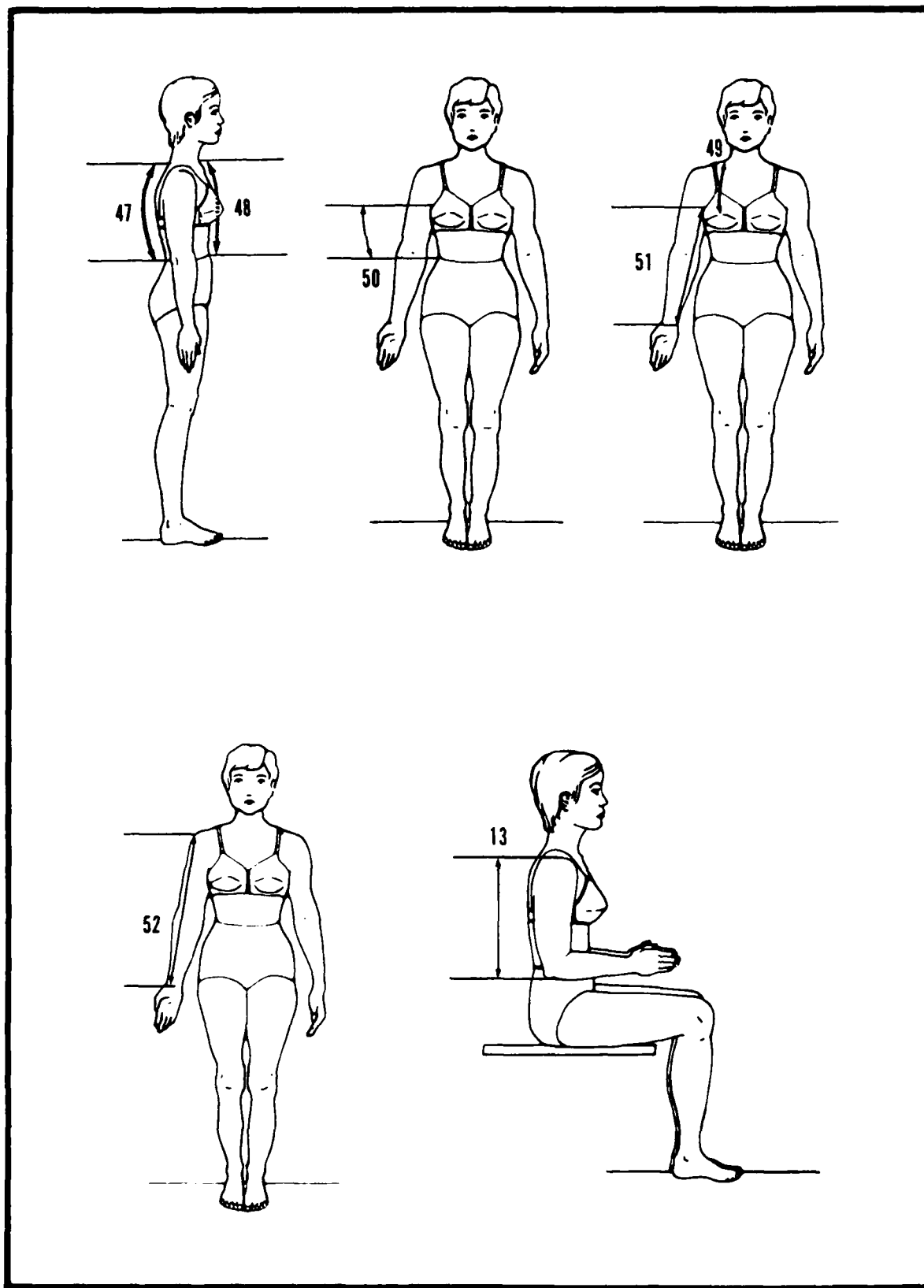


Figure 2. The visual index: lengths.

## LENGTHS

ACROMION - AXILLA (72): a derived dimension computed by subtracting variable no. 4 (axilla height) from variable no. 3 (shoulder height). (Not pictured)

AXILLA TO WAIST (50): surface distance from armpit to waist point in the midaxillary line.

CERVICALE - ACROMION (73): a derived dimension computed by subtracting variable no. 3 (shoulder height) from variable no. 71 (cervicale height). (Not pictured)

CERVICALE - BUSTPOINT (74): a derived dimension computed by subtracting variable no. 5 (bustpoint height) from variable no. 71 (cervicale height). (Not pictured)

CERVICALE - BUTTOCK (78): a derived dimension computed by subtracting variable no. 8 (buttock height) from variable no. 71 (cervicale height). (Not pictured)

NECK TO BUSTPOINT (49): a distance from the lateral neck-shoulder juncture to the bra tip with the tape held tense and not following the body contours.

SLEEVE INSEAM LENGTH (51): distance from the anterior edge of the armpit to the little finger side of the wrist measured with the arm slightly abducted, the palm forward, and the tape tense.

SLEEVE OUTSEAM LENGTH (52): distance from acromion to the thumb side of the wrist; arm is slightly abducted, the palm held forward, and the tape tense.

SHOULDER TO ELBOW (13): distance along the long axis of the upper arm from acromion to the inferior tip of the olecranon process of the elbow.

WAIST BACK LENGTH (47): surface distance from the waist to cervicale.

WAIST - BUTTOCK (75): a derived dimension computed by subtracting variable no. 8 (buttock height) from variable no. 6 (waist height). (Not pictured)

WAIST - CROTCH (76): a derived dimension computed by subtracting variable no. 7 (crotch height) from variable no. 6 (waist height). (Not pictured)

WAIST FRONT LENGTH (48): surface distance from the waist to the anterior neck-torso juncture.

WAIST - KNEECAP (77): a derived dimension computed by subtracting variable no. 9 (kneecap height) from variable no. 6 (waist height). (Not pictured)

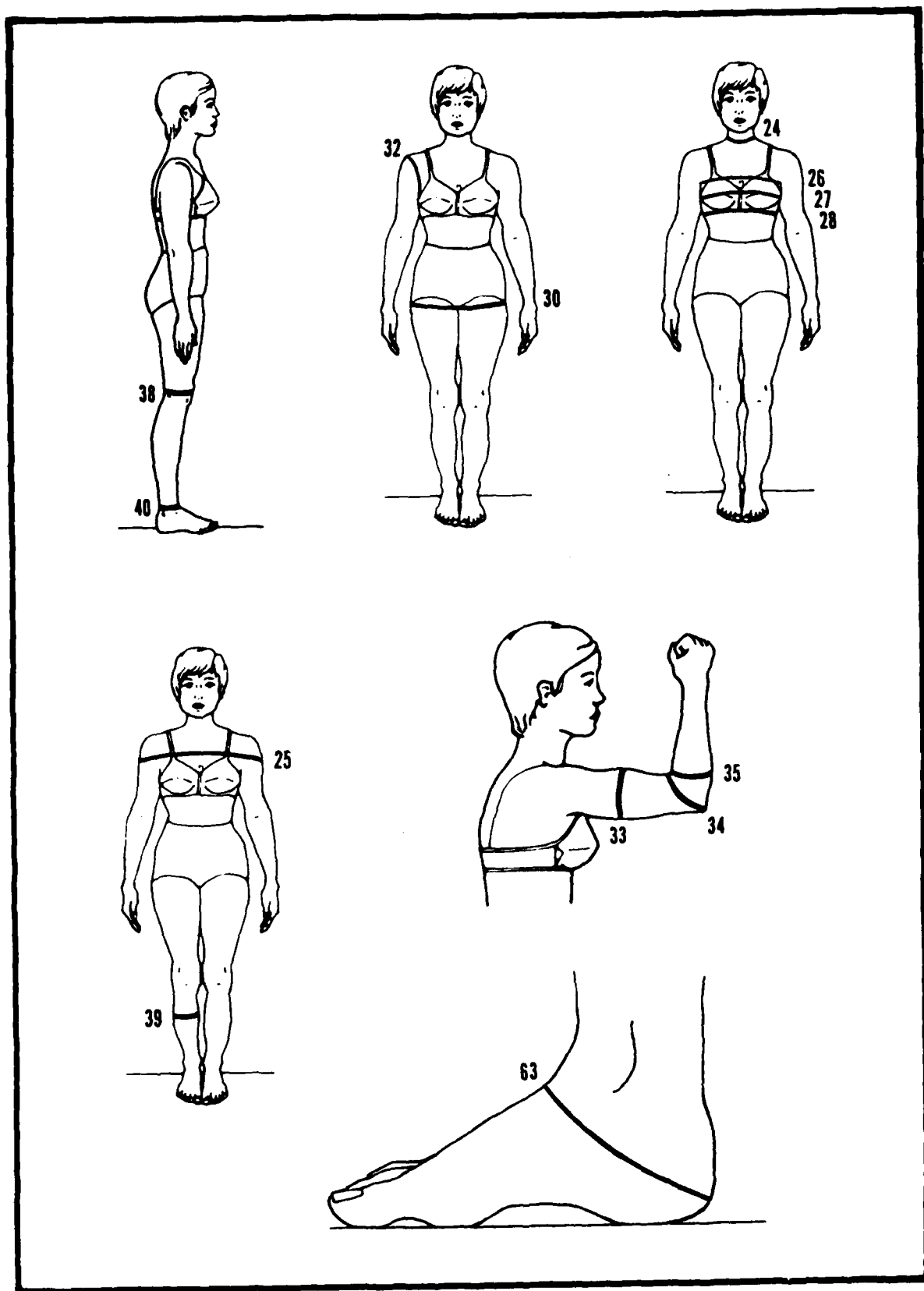


Figure 3. The visual index: circumferences and arcs.

## CIRCUMFERENCES

ANKLE CIRCUMFERENCE (40): minimum circumference of the ankle.

ARM CIRCUMFERENCE AT SCYE (32): circumference of the scye measured with the tape passing through the armpit and over acromion.

BICEPS CIRCUMFERENCE, FLEXED (33): circumference of the arm at the level of the maximal protrusion of the biceps, measured with the elbow flexed 90 degrees, the upper arm horizontal and the fist tightly clenched.

BUST CIRCUMFERENCE (27): horizontal circumference of the trunk measured with the tape passing over the bra points.

BUST - WAIST CIRCUMFERENCE (79): a derived dimension computed by subtracting variable no. 29 (waist circumference) from variable no. 27 (bust circumference). (Not pictured)

CALF CIRCUMFERENCE (39): maximum circumference of the calf.

CHEST CIRCUMFERENCE AT SCYE (26): horizontal circumference of the trunk measured with the tape high in the armpits.

CHEST CIRCUMFERENCE BELOW BUST (28): horizontal circumference of the trunk measured at a level just below the cups of the bra.

ELBOW CIRCUMFERENCE, FLEXED (34): distance around the elbow measured over its tip and through the crotch with arm in same position as 33 above.

FOREARM CIRCUMFERENCE, FLEXED (35): maximum circumference of the lower arm measured with the arm in same position as 33 above.

HEEL/ANKLE CIRCUMFERENCE (63): diagonal foot circumference measured with the tape passing under tip of the heel and over instep at foot leg juncture.

HIP CIRCUMFERENCE (30): maximum circumference of the hips at the level of the maximum posterior protrusion of the buttocks.

KNEE CIRCUMFERENCE (38): circumference of the knee at the level of the midpoint of the kneecap.

NECK CIRCUMFERENCE (24): circumference of the base of the neck (this circumference is not in a plane perpendicular to the axis of the neck).

SHOULDER CIRCUMFERENCE (25): horizontal circumference of the shoulders at the level of the greatest lateral protrusion of the deltoid muscles.

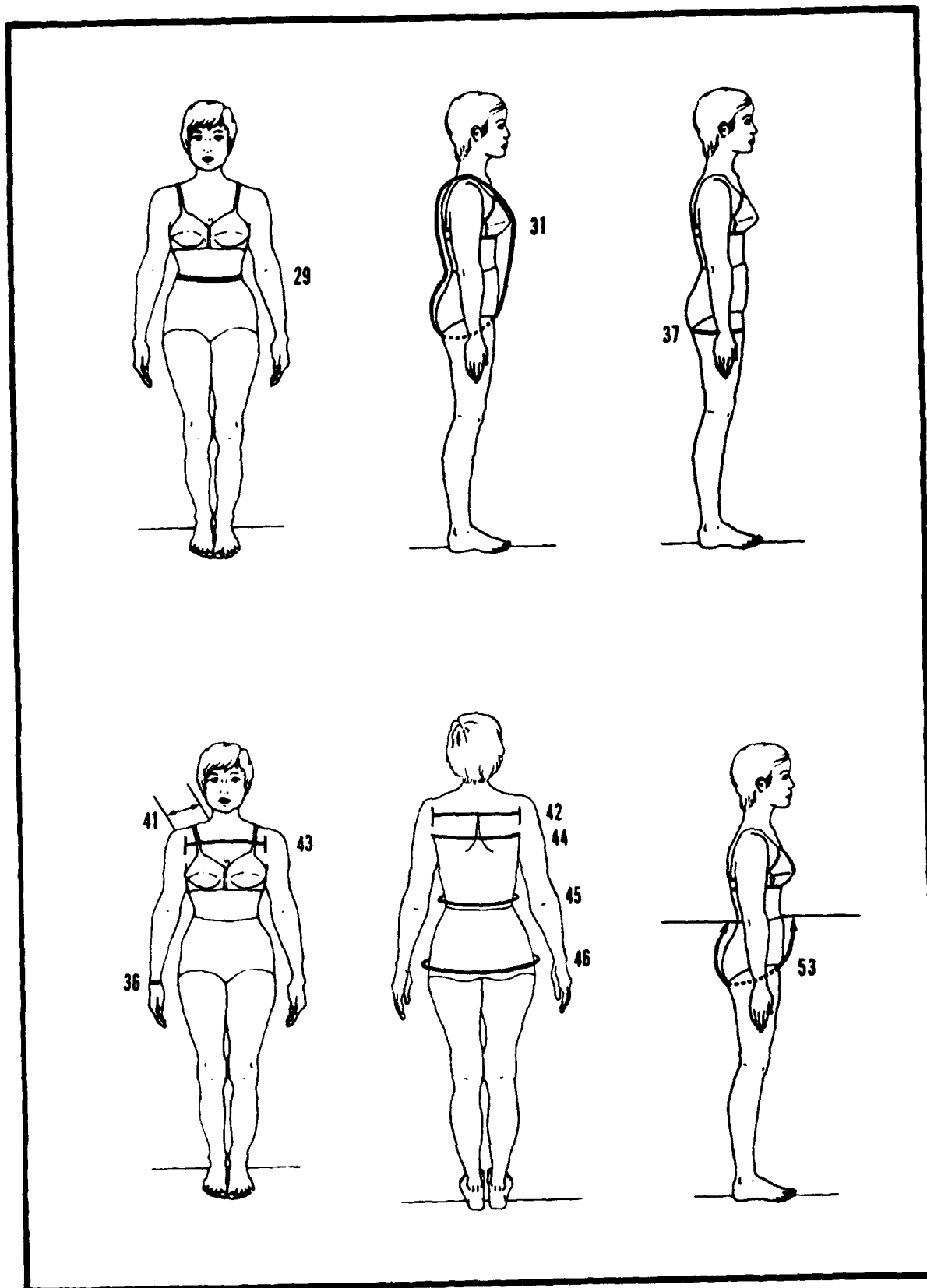


Figure 3. The visual index: circumferences and arcs (continued).



#### CIRCUMFERENCES (cont'd)

UPPER THIGH CIRCUMFERENCE (37): circumference of the leg measured at the level of the lowest point of the gluteal furrow.

VERTICAL TRUNK CIRCUMFERENCE (31): circumference of the torso measured with the tape passing through the crotch, over the protrusion of the buttock, the midshoulder point, and the tip of the bra. The tape follows the contour of the body's back but not its front.

WAIST CIRCUMFERENCE (29): horizontal circumference of the waist at 'natural' waist level.

WRIST CIRCUMFERENCE (36): circumference of the wrist at stylium level.

#### ARCS

BACK ARC, BUST (44): surface distance across the back between midaxillary lines at the level of the bra points.

BACK ARC, HIP (46): surface distance across the back between midaxillary lines at the level of the maximum protrusion of the buttocks.

BACK ARC, WAIST (45): surface distance across the back between midaxillary lines at waist level.

CROTCH LENGTH (53): surface distance from the waist directly above buttock protrusion, over the protrusion, and through the crotch to waist level in the midsagittal plane.

INTERSCYE, BACK (42): surface distance across the back between points midway between the posterior edges of armpits and acromial points.

INTERSCYE, FRONT (43): surface distance across the front between points midway between the anterior edges of armpit and acromial points.

SHOULDER LENGTH (41): surface distance from neck-shoulder junction to acromion.

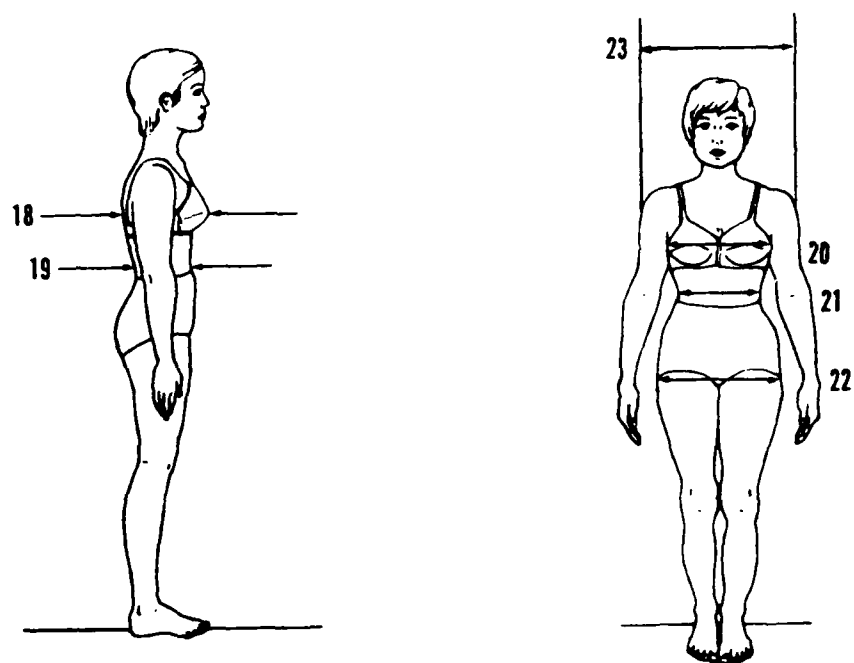


Figure 4. The visual index: depths and breadths.

#### DEPTHS AND BREADTHS

BUST DEPTH (18): horizontal distance from the tip of the bra to the back of the torso.

CHEST BREADTH (20): left-right breadth of the torso at the level of the bust points.

HIP BREADTH (22): maximum horizontal breadth of the hips.

SHOULDER (BIDELTOID) BREADTH (23): horizontal distance across maximum lateral protrusion of the right and left deltoid muscles.

WAIST BREADTH (21): left-right breadth of the torso at waist level.

WAIST DEPTH (19): anterior-posterior depth of the torso at waist level.

TABLE 1

## 1977 ARMY WOMEN'S SURVEY: SUMMARY STATISTICS AND SELECTED PERCENTILES

ENGLISH UNITS*	MEAN	SD	1ST	5TH	10TH	25TH	50TH	75TH	90TH	95TH	99TH	
WEIGHT	1	132.11	18.76	95.0	103.0	108.7	119.3	131.4	143.6	155.7	164.2	184.9
***HEIGHTS***												
ANKLE HEIGHT	68	4.27	.40	3.4	3.6	3.8	4.0	4.3	4.5	4.8	5.0	5.4
AXILLA HEIGHT	4	48.52	2.20	43.6	45.0	45.7	47.0	48.5	50.0	51.4	52.3	53.6
BUSTPOINT HEIGHT	5	46.57	2.21	41.8	43.0	43.7	45.0	46.5	48.1	49.5	50.3	51.8
BUTTOCK HEIGHT	8	32.99	1.84	29.1	30.1	30.7	31.7	32.9	34.2	35.4	36.1	37.8
CALF HEIGHT	10	12.81	.91	10.9	11.4	11.7	12.2	12.8	13.4	14.0	14.4	15.1
CERVICAL HEIGHT	71	55.61	2.33	50.5	51.9	52.6	54.0	55.5	57.2	58.7	59.6	61.0
CROTCH HEIGHT	7	30.07	1.72	26.3	27.4	27.9	28.8	30.0	31.2	32.4	33.0	34.2
KNEECAP HEIGHT	9	18.86	1.04	16.6	17.2	17.6	18.1	18.8	19.6	20.3	20.7	21.3
SHOULDER HEIGHT	3	52.55	2.36	47.4	48.8	49.5	50.9	52.5	54.2	55.7	56.6	58.1
SPHYRION HEIGHT	69	2.54	.21	2.0	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.1
STATURE	2	64.15	2.57	58.3	60.1	60.9	62.4	64.1	65.9	67.5	68.5	70.2
WAIST HEIGHT	6	39.92	2.05	35.3	36.7	37.4	38.5	39.8	41.2	42.6	43.4	45.0
***LENGTHS***												
ACROMION - AXILLA	72	4.03	.40	3.1	3.4	3.5	3.8	4.0	4.3	4.5	4.7	5.0
AXILLA TO WAIST	50	9.09	.99	7.1	7.6	7.9	8.4	9.0	9.7	10.3	10.8	12.0
CERVICAL-ACROMION	73	3.06	.30	2.4	2.6	2.7	2.9	3.1	3.3	3.4	3.6	3.8
CERV. - BUSTPOINT	74	9.04	.80	7.3	7.8	8.0	8.5	9.0	9.6	10.1	10.4	11.0
CERVICAL-BUTTOCK	78	22.63	1.27	19.6	20.5	21.0	21.8	22.6	23.5	24.3	24.7	25.5
NECK TO BUSTPOINT	49	9.95	.82	8.3	8.6	8.9	9.4	9.9	10.5	11.0	11.3	12.0
SLEEVE INSEAM	51	17.74	1.03	15.5	16.1	16.4	17.0	17.7	18.4	19.1	19.5	20.3
SLEEVE OUTSEAM	52	21.18	1.17	18.5	19.4	19.7	20.4	21.1	22.0	22.7	23.2	23.9
SHOULDER TO ELBOW	13	13.21	.69	11.7	12.1	12.4	12.7	13.2	13.7	14.1	14.4	14.8
WAIST BACK	47	16.08	1.04	13.9	14.5	14.8	15.3	16.0	16.8	17.4	17.9	18.7

\*WEIGHT IN POUNDS; ALL OTHER MEASUREMENTS IN INCHES. ( N = 1330 )

TABLE 1 (CONT'D)

***LENGTHS CONT.***													
75	6.93	1.11	3.8	5.0	5.5	6.3	7.0	7.7	8.3	8.6	9.2		
WAIST - BUTTOCK													
76	9.85	.97	7.1	8.2	8.6	9.3	9.9	10.5	11.0	11.4	12.0		
WAIST - CROTCH													
48	14.46	1.03	12.4	12.9	13.2	13.7	14.4	15.1	15.8	16.3	17.4		
WAIST FRONT													
77	21.06	1.28	18.0	18.9	19.4	20.2	21.1	21.9	22.7	23.2	24.2		
WAIST - KNEECAP													
***CIRCUMFERENCES***													
40	8.16	.49	7.1	7.4	7.5	7.8	8.1	8.5	8.8	9.0	9.3		
ANKLE CIRCUMFERENC													
32	14.77	.94	12.8	13.3	13.6	14.1	14.7	15.3	16.0	15.4	17.4		
ARM CIRC AT SCYE													
33	10.58	.89	8.6	9.1	9.4	10.0	10.6	11.1	11.7	12.1	12.9		
BICEPS CIRC, FLXD													
27	34.72	2.49	30.0	30.8	31.6	33.0	34.6	36.2	37.8	38.9	41.6		
BUST CIRCUMFERENCE													
79	6.77	1.67	2.1	3.9	4.6	5.8	5.9	7.9	8.8	9.4	10.4		
BUST-WAIST, CIRC.													
39	13.81	.98	11.7	12.2	12.5	13.1	13.8	14.5	15.1	15.4	16.2		
CALF CIRCUMFERENCE													
26	33.67	2.01	29.6	30.5	31.1	32.3	33.6	34.9	36.2	37.1	39.1		
CHEST CIRC AT SCYE													
28	29.45	1.94	26.0	26.5	27.0	28.1	29.3	30.6	31.9	32.8	35.0		
CHEST C BELOW BUST													
34	10.23	.64	8.9	9.2	9.4	9.8	10.2	10.6	11.1	11.3	11.9		
ELBOW CIRC FLXD													
35	9.69	.60	8.3	8.7	8.9	9.3	9.7	10.1	10.5	10.7	11.1		
FOREARM CIRC, FLXD													
63	12.12	.57	10.9	11.2	11.4	11.7	12.1	12.5	12.9	13.1	13.6		
HEEL/ANKLE CIRC.													
30	37.59	2.48	32.1	33.7	34.5	35.9	37.5	39.1	40.7	41.7	44.1		
HIP CIRCUMFERENCE													
38	13.71	.88	11.9	12.3	12.6	13.1	13.7	14.3	14.8	15.2	16.1		
KNEE CIRCUMFERENCE													
24	12.74	.62	11.4	11.8	12.0	12.3	12.7	13.1	13.5	13.8	14.3		
NECK CIRCUMFERENCE													
25	39.51	2.11	35.2	36.2	36.8	38.0	39.4	40.9	42.2	43.0	44.8		
SHOULDER CIRCUMFER													
37	22.40	1.79	18.3	19.4	20.1	21.2	22.4	23.5	24.6	25.4	27.1		
UPPER THIGH CIRCUM													
31	60.56	2.84	53.7	56.0	57.0	58.7	60.5	62.4	64.2	65.4	67.6		
VERTICAL TRUNK CIR													
29	27.94	2.67	23.2	24.3	24.9	26.1	27.6	29.4	31.4	32.9	36.3		
WAIST CIRCUMFERENC													
36	5.79	.27	5.2	5.4	5.5	5.6	5.8	6.0	6.1	6.2	6.4		
WRIST CIRCUMFERENC													

\*WEIGHT IN POUNDS; ALL OTHER MEASUREMENTS IN INCHES. ( N = 1330 )

TABLE 1 (CONT'D)

***ARCS***														
BACK ARC, BUST	44	16.52	1.23	13.9	14.6	15.0	15.7	16.5	17.3	18.1	18.6	19.9		
BACK ARC, HIP	46	18.70	1.45	15.6	16.5	16.9	17.7	18.6	19.6	20.6	21.2	22.5		
BACK ARC, WAIST	45	13.89	1.35	11.5	12.0	12.4	13.0	13.7	14.6	15.6	16.4	18.2		
CROTCH LENGTH	53	28.71	2.15	22.9	25.1	26.0	27.4	28.8	30.1	31.3	32.1	33.5		
INTERSCYE BACK	42	14.90	.92	12.7	13.4	13.7	14.3	14.9	15.5	16.1	16.4	17.1		
INTERSCYE FRONT	43	13.86	.68	11.6	12.8	12.2	12.6	13.0	13.5	13.9	14.2	14.8		
SHOULDER LENGTH	41	5.90	.42	4.9	5.2	5.4	5.6	5.9	6.2	6.4	6.6	7.0		
***DEPTHS AND BREADTHS***														
BUST DEPTH	18	9.02	.87	7.3	7.7	8.0	8.4	9.0	9.5	10.1	10.5	11.4		
CHEST BREADTH	20	11.12	.72	9.6	10.0	10.2	10.6	11.1	11.6	12.0	12.4	13.1		
HIP BREADTH	22	13.92	.96	11.9	12.4	12.7	13.3	13.9	14.5	15.1	15.6	16.5		
SHOULDER BREADTH	23	16.55	.87	14.7	15.1	15.4	15.9	16.5	17.1	17.6	18.0	18.7		
WAIST BREADTH	21	10.07	.95	8.3	8.7	8.9	9.4	10.0	10.6	11.3	11.8	13.0		
WAIST DEPTH	19	7.20	.66	5.7	6.0	6.2	6.6	7.1	7.6	8.3	8.8	9.9		

\*WEIGHT IN POUNDS; ALL OTHER MEASUREMENTS IN INCHES. ( N = 1330 )

## CHAPTER II

### DEVELOPMENT OF SIZING SYSTEMS

An anthropometric sizing analysis for clothing and personal-protective equipment is based on the concept of dividing the population into subgroups of individuals who are more or less similar in certain relevant body size dimensions (such as, tall and slender, short and heavy, large-busted and long-waisted) and then analyzing the anthropometric data for these subgroups in order to arrive at appropriate dimensional design values which will accommodate the size variability within each group.

Specifically, the sequence of steps involved is: (1) the selection of an appropriate body of data for analysis, (2) the selection of the key or sizing dimensions, (3) the selection of intervals for the key dimensions (that is, the upper and lower limits of the key dimensions that will establish each size category), (4) the development of the dimensional data for each of the established size categories, and (5) the conversion of the data to the appropriate recommended size values.

Equipped with the 1977 Army women's data, step one is already completed.

Step two, the choice of key or sizing dimensions, is of crucial importance in the creation of anthropometric sizing programs. These dimensions should be conveniently measurable and have a high degree of correlation with other dimensions which are of importance in the design and sizing of the end item. Sometimes a key dimension, such as bust circumference, is chosen simply because it is the most obviously critical dimension in the fit of the garment. In fact, no single body measurement or dimension is adequate as a basis for sizing most items of clothing or personal-protective equipment because no single dimension is closely related both to the lengths or heights of the body and to its girths, breadths and depths. For example, hip or waist measurements alone are inadequate to obtain a good fit in slacks since women of comparable girths vary so widely in leg length.

The obvious solution is to choose two key dimensions selected so that each will control some different aspect of body size variability such as linearity or mass. The next problem is to determine which pair should be used in a particular sizing program. The selection often depends on which ones exercise maximum control over other dimensions of body size which are relevant in the design. By "control" we mean the degree to which changes in a given dimension correlate with changes in another dimension.

The capability of key dimensions for controlling other relevant dimensions can be computed given appropriate data, such as those reported in the 1977 Army women's survey. In this case our evaluation resulted in the choice of bust circumference and stature as key dimensions in the sizing systems developed for upper body garments, and hip circumference and crotch height for lower body sizing programs.

Key dimensions for upper or lower body systems which exert considerable control over the portions of the body in which they are located often do not

correlate particularly well with dimensions in other areas of the body. Thus, total body garments require a different sizing approach.

Statistical studies and practical applications have demonstrated that the combination of stature and weight optimally minimize variability of total body sizing dimensions (Emanuel et al., 1959;<sup>2</sup> O'Brien et al., 1941;<sup>3</sup> O'Brien and Shelton, 1941;<sup>4</sup> Morant and Gilson, 1945;<sup>5</sup> Alexander et al., 1979;<sup>6</sup> Tebbetts et al., 1979<sup>7</sup>).

In addition to its statistical virtues, a total body system based on stature and weight has numerous practical advantages. Fitting in the field is simplified since these two measurements are generally known to persons being fitted and can, in any case, be easily measured. Distribution to field units and spot checks on U.S. Army needs can be made by reference to records of U.S. Army physical examinations during which stature and weight are ascertained. Further, because stature and weight are not directly built into the design of the garment, there is overlap between sizes for all design dimensions. This results in greater flexibility in accommodating the subject population since it allows for more upgrading and downgrading of sizes than would be possible when key sizing dimensions are built directly into the garment.

Step three is the selection of intervals for the key dimensions. This task is much aided by the use of bivariate frequency tables which are a graphic means of presenting information on the various ways and degrees to which body dimensions are related to one other. The bivariate table shows the ranges of any two given measurements (in this case, the two key dimensions) and the numbers of subjects who fall within a particular range of values for one variable and simultaneously within a specified range for a second variable. Figure 5 illustrates the

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<sup>2</sup>Emanuel, I., M. Alexander, E. Churchill and B. Truett. A Height-Weight Sizing System for Flight Clothing. WADC Technical Report 56-365, Aeromedical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1959. (AD 130 917)

<sup>3</sup>O'Brien, R., M.A. Girshick and E.P. Hunt. Body Measurements of American Boys and Girls for Garment and Pattern Construction. U.S. Department of Agriculture Miscellaneous Publication No. 366, U.S. Government Printing Office, Washington, D.C., 1941.

<sup>4</sup>O'Brien, R. and W.C. Shelton. Women's Measurements for Garment and Pattern Construction. U.S. Department of Agriculture Miscellaneous Publication No. 454. U.S. Government Printing Office, Washington, D.C., 1941.

<sup>5</sup>Morant, G.M. and J.C. Gilson. A Report on a Survey of Body and Clothing Measurements of Royal Air Force Personnel. FPRC 633(a), RAF Institute of Aviation Medicine, Farnborough, Hants, England, 1945.

<sup>6</sup>Alexander, M., J.T. McConville and I. Tebbetts. Revised Height/Weight Sizing Programs for Men's Protective Flight Garments. Technical Report AMRL-TR-79-28, Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1979. (AD A070 732)

<sup>7</sup>Tebbetts, I., J.T. McConville and M. Alexander. Height/Weight Sizing Programs for Women's Protective Garments. Technical Report AMRL-TR-79-35, Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1979. (AD A072 376)



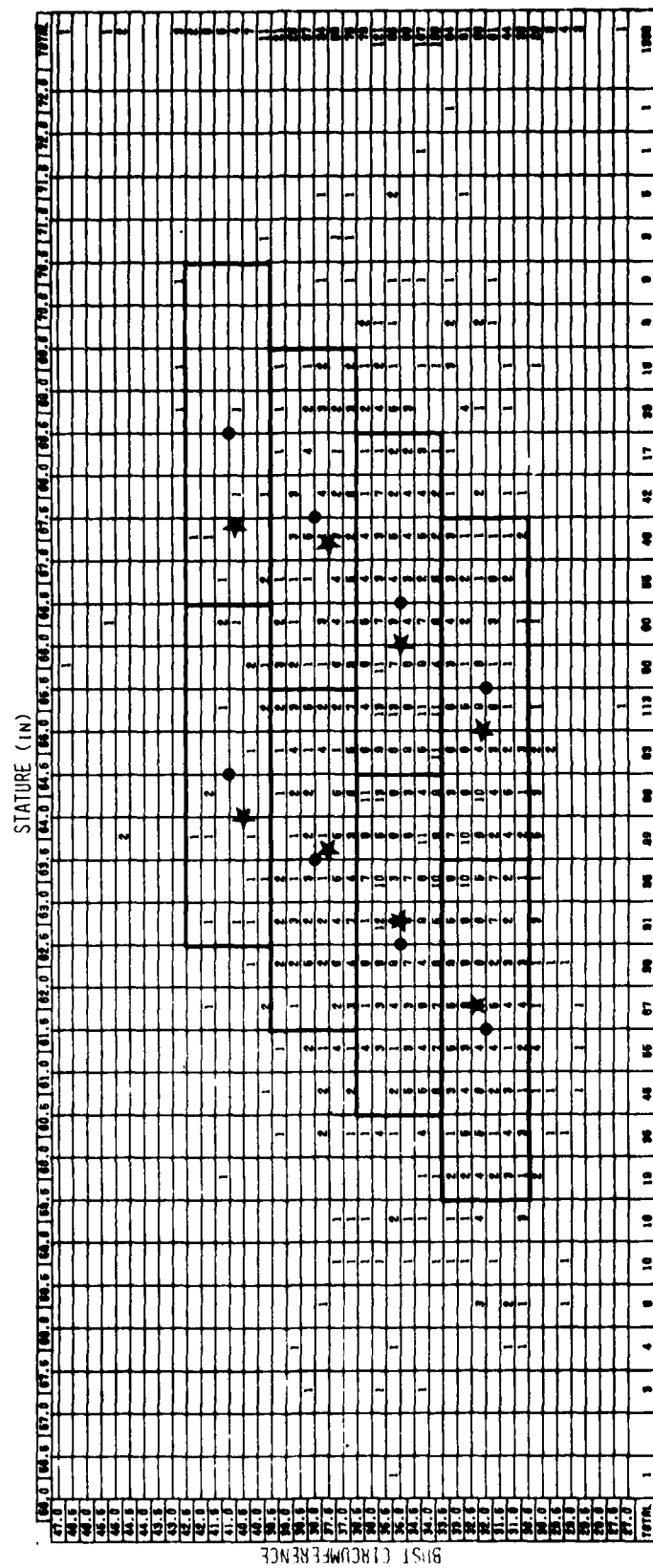


Figure 5. The 8-size upper body program plotted on a bust circumference/stature bivariate.

bust circumference-stature bivariate on which the 8-size program is plotted. The goal when selecting size intervals is to create a program which includes better than 90% of the sample, with a manageable number of size categories which are not too large for either dimension. For each size system (e.g. upper body, lower body, total body) documented in this report, we have prepared alternate size programs (e.g. 6-size, 8-size, 12-size etc.) which vary with respect to the intervals between sizes. Guidelines for choosing the one best suited to a particular need are suggested in the next chapter.

With selection of the key dimensions and determination of the intervals into which they will be divided to establish the various size categories, the next step is to develop dimensional data for all the other measurements which will be involved in the design of the garment.

The primary functions of the dimensional data are to describe the body size variability among the individuals within each size so that the best values for each size can be selected and so that the amount of adjustability which will be necessary can be determined.

The statistical method most commonly used to describe the range of values in a given group of normally distributed data involves establishment of a mean value to which multiples of standard deviations are added and subtracted. Figure 6 graphs such normally distributed data and illustrates the magnitude of the range covered by various multiples of the standard deviation (SD).

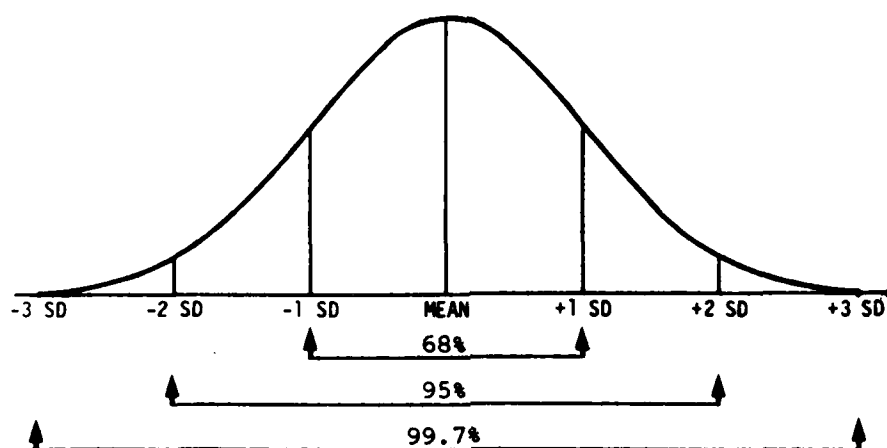


Figure 6. Normal distribution indicating approximate population percentiles with specified standard deviations (SD).

For sizing purposes, however, this approach must be somewhat modified since dimensional data divided into size categories are not normally distributed and tend to cluster toward the mean of the total sample. The within-a-size mean values also tend to be skewed in that direction. This phenomenon is illustrated on the bivariate table in Figure 5. The mean bust circumferences and statures for the subsample of persons who fall within each of the eight categories in Figure 5 have been calculated and designated with a star. This is contrasted with the interval mean that would be obtained if the individuals were equally distributed throughout the bust circumference-stature sizing interval (●). This is, in essence, the sizing category midpoint. While the differences between the mean values computed directly from the subgroup and the category interval midpoints are not large, the locations of the mean values clearly penalize the subjects in the least populated areas of the size category. To correct the problem caused by the somewhat skewed distribution of individuals within a size category, so-called "mid-size values" are computed from multiple regression equations using the size category midpoints as predictors.\* The effect of this procedure is to even the distribution throughout each size category.

We also computed a modified "standard deviation" called the within-a-size standard deviation (SZSD) to be applied with the mid-size value just as a standard deviation is applied to a mean. Thus, the mid-size value plus or minus 1.67 SZSD's should encompass approximately 90% of the persons within a given size just as the mean value plus or minus 1.67 SD's do for the total sample (see Figure 6). A combination of the mid-size value and the SZSD, then, enables designers to determine how small and how large to expect persons to be for a particular dimension within a particular size and establishes the adjustability which will be necessary to accommodate most persons within that size. These values, termed the "range to be accommodated" in the size tables which follow, specify the range of variation for each body dimension to be accommodated in a size program.

The designer or pattern maker, however, requires a single value rather than a range of values in the actual fabrication of a garment. Since it is axiomatic that smaller persons can, if necessary, wear larger garments but larger persons cannot be accommodated by too-small garments, upper range values are usually selected as the sizing values since they accommodate the majority of the individuals' values within that size category. However, due to the nature of the statistical basis from which they are derived and the less than perfect correlation among the dimensions of the body, the lower and upper range values are not additive; that is, for example, the upper range value for axilla height plus the upper range value of acromion-minus-axilla does not add up to shoulder height despite the fact that acromion-minus-axilla was actually derived by subtraction of axilla height from shoulder height. By the same token, lower range values also do not add up to correct totals. We have

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\* Procedures for computing all the sizing data presented in this report are described in Appendix B.

discussed this problem in previous papers (McConville and Churchill, 1976;<sup>8</sup> Robinette and Churchill, 1979<sup>9</sup>).

We have, therefore, devised an alternate means for deriving recommended sizing values which are additive. The recommended design value, for each dimension and each size, was calculated from regression equations using the key dimensions as predictor variables. Once again, to accommodate the maximum number of persons, the recommended values are computed for an individual who falls at the upper point in each size category. Alternative design values for each size system can be computed from the appropriate regression equations which are included here in Appendix B.

At this point, it is important to reiterate that the dimensional data and recommended sizing values given in the various sizing programs are measures of the nude body and not ultimate design values for patterns or clothing. To arrive at final design values, appropriate tailoring increments must be added or subtracted by the designer.

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<sup>8</sup>McConville, J.T. and E. Churchill. Statistical Concepts in Design. Technical Report AMRL-TR-76-29, Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1976. (AD A025 750)

<sup>9</sup>Robinette, K. and T. Churchill. Design Criteria for Characterizing Individuals in the Extreme Upper and Lower Body Size Ranges. Technical Report AMRL-TR-79-33, Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1979. (AD A072 353)

## CHAPTER III

### SELECTING A SIZING PROGRAM

Sizing material presented in this report has been organized into three sizing systems designed for upper-, lower- and total-body garments, respectively. Alternate sizing programs are given for each system as follows:

8-, 12-, and 18-size upper garment programs using bust circumference and stature as key dimensions

8-, 12-, and 18-size lower garment programs using hip circumference and crotch height as key dimensions

6-, 8-, and 12-size total body programs using stature and weight as key dimensions

At the end of this chapter, the designer will find bivariate tables for each program on which size categories are delineated in a graphic portrayal of the coverage obtained by each size in the program (Tables 2, 4, 6, 8, 10, 12, 14, 16 and 18). Accompanying each bivariate is a table listing and delineating the size categories, and giving a tariff indicating the per-thousand number of each garment to be procured (Tables 3, 5, 7, 9, 11, 13, 15, 17 and 19).

The goal of any sizing program is to achieve a good fit for the maximum number of people in the minimum number of sizes. To this end, we offer the more cost-effective 6- and 8-size programs and, at the other end of the spectrum, the potentially better fitting 12- and 18-size programs.

There are a number of factors to be considered when selecting a program. The designer should observe the overall sample coverage of the program as depicted on the bivariate table to determine if it is sufficient to meet his or her needs. For example, the 18-size lower body program includes approximately five percent more persons than the 12-size program. The programs with more sizes also have more combinations of key dimensions and, as a result, more combinations of other dimensions which up to a point enhance the possibilities of a better fit for more individuals.

On the other hand, while one could expand considerably beyond 18 sizes using more and more discrete categories of height and weight, both statistics and experience show that, in fact, further increase in the number of sizes has limited usefulness in terms of improved fit, and significant penalties in terms of cost and logistics. Decreased sizing benefits from increases in size categories occur because of the less than perfect relationships between the key sizing dimensions and all the other dimensional variables built into a garment. That is, a size for every inch of height (instead of every three inches) and every 10 pounds of weight (instead of every 25 pounds) may not necessarily improve the quality of the fit at waist or ankle.

Adjustability will play a major role in the choice of sizing systems. Ways of designing adjustability into garments are limited only by the inventiveness of designers; traditionally they include lacing, belts, elastic encircling waist, wrist or ankle girths and alternate fasteners. Even the

type of material used will have some effect on the fit tolerances of the garment. In the case of one British-made chemical defense undergarment, arms and legs were cut at maximum length and designed to be sheared off by individual wearers to provide a "custom" fit. Such a feature might be sufficient to reduce the need from 12 to 8 total body sizes for a comparable disposable protective U.S. Army garment.

Basically, in selecting a sizing program, the designer will be called upon to consider two key points -- the need for a close fit and the adjustability built into the garment -- factors which will have to be balanced against the limitations of cost and procurement.

SUMMARIES OF SIZING PROGRAMS:

BIVARIATE TABLES, SIZE CATEGORY  
DESCRIPTIONS, AND TARIFFS

TABLE 2  
8-SIZE UPPER BODY PROGRAM BIVARIATE

BUST CIRCUMFERENCE (IN)	STATURE (IN)																				
	64.0	64.5	65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5	72.0	72.5	73.0	73.5	
33.0																					1
34.0																					1
35.0																					1
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124.0																					1
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127.0																					1
128.0																					1
129.0																					1
130.0																					1



TABLE 3  
8-SIZE UPPER BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Bust Circ</u>	<u>Stature</u>	<u>Tariff per Thousand</u>
Small Regular	30.50-33.49	59.50-63.49	168
Small Long	30.50-33.49	63.50-67.49	140
Medium Regular	33.50-36.49	60.50-64.49	245
Medium Long	33.50-36.49	64.50-68.49	227
Large Regular	36.50-39.49	61.50-65.49	112
Large Long	36.50-39.49	65.50-69.49	84
X-Large Regular	39.50-42.49	62.50-66.49	17
X-Large Long	39.50-42.49	66.50-70.49	7

Theoretical coverage of the population: 86.2%.

12-SIZE UPPER BODY PROGRAM BIVARIATE

[illegible]

TABLE 5

12-SIZE UPPER BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Bust Circ</u>	<u>Stature</u>	<u>Tariff per Thousand</u>
Small Short	30.50-33.49	59.00-61.99	92
Small Regular	30.50-33.49	62.00-64.99	148
Small Long	30.50-33.49	65.00-67.99	66
Medium Short	33.50-36.49	60.00-62.99	130
Medium Regular	33.50-36.49	63.00-65.99	239
Medium Long	33.50-36.49	66.00-68.99	105
Large Short	36.50-39.49	61.00-63.99	70
Large Regular	36.50-39.49	64.00-66.99	81
Large Long	36.50-39.49	67.00-69.99	44
X-Large Short	39.50-42.49	62.00-64.99	10
X-Large Regular	39.50-42.49	65.00-67.99	13
X-Large Long	39.50-42.49	68.00-70.99	2

Theoretical coverage of the population: 89.9%.

TABLE 6  
18-SIZE UPPER BODY PROGRAM BIVARIATE

		BUST CIRCUMFERENCE (IN)		STATURE (IN)		1		3		4		6		8		10		12		14		16		18		20		22		24		26		28		30		32		34		36		38		40		42		44		46		48		50		52		54		56		58		60		62		64		66		68		70		72		74		76		78		80		82		84		86		88		90		92		94		96		98		100		102		104		106		108		110		112		114		116		118		120		122		124		126		128		130		132		134		136		138		140		142		144		146		148		150		152		154		156		158		160		162		164		166		168		170		172		174		176		178		180		182		184		186		188		190		192		194		196		198		200		202		204		206		208		210		212		214		216		218		220		222		224		226		228		230		232		234		236		238		240		242		244		246		248		250		252		254		256		258		260		262		264		266		268		270		272		274		276		278		280		282		284		286		288		290		292		294		296		298		300		302		304		306		308		310		312		314		316		318		320		322		324		326		328		330		332		334		336		338		340		342		344		346		348		350		352		354		356		358		360		362		364		366		368		370		372		374		376		378		380		382		384		386		388		390		392		394		396		398		400		402		404		406		408		410		412		414		416		418		420		422		424		426		428		430		432		434		436		438		440		442		444		446		448		450		452		454		456		458		460		462		464		466		468		470		472		474		476		478		480		482		484		486		488		490		492		494		496		498		500		502		504		506		508		510		512		514		516		518		520		522		524		526		528		530		532		534		536		538		540		542		544		546		548		550		552		554		556		558		560		562		564		566		568		570		572		574		576		578		580		582		584		586		588		590		592		594		596		598		600		602		604		606		608		610		612		614		616		618		620		622		624		626		628		630		632		634		636		638		640		642		644		646		648		650		652		654		656		658		660		662		664		666		668		670		672		674		676		678		680		682		684		686		688		690		692		694		696		698		700		702		704		706		708		710		712		714		716		718		720		722		724		726		728		730		732		734		736		738		740		742		744		746		748		750		752		754		756		758		760		762		764		766		768		770		772		774		776		778		780		782		784		786		788		790		792		794		796		798		800		802		804		806		808		810		812		814		816		818		820		822		824		826		828		830		832		834		836		838		840		842		844		846		848		850		852		854		856		858		860		862		864		866		868		870		872		874		876		878		880		882		884		886		888		890		892		894		896		898		900		902		904		906		908		910		912		914		916		918		920		922		924		926		928		930		932		934		936		938		940		942		944		946		948		950		952		954		956		958		960		962		964		966		968		970		972		974		976		978		980		982		984		986		988		990		992		994		996		998		1000	
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TABLE 7

18-SIZE UPPER BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Bust Circ</u>	<u>Stature</u>	<u>Tariff per Thousand</u>
X-Small Short	30.00-31.99	58.00-61.99	43
X-Small Regular	30.00-31.99	62.00-65.99	61
X-Small Long	30.00-31.99	66.00-69.99	20
Small Short	32.00-33.99	58.00-61.99	73
Small Regular	32.00-33.99	62.00-65.99	170
Small Long	32.00-33.99	66.00-69.99	43
Medium Short	34.00-35.99	58.00-61.99	45
Medium Regular	34.00-35.99	62.00-65.99	195
Medium Long	34.00-35.99	66.00-69.99	72
Large Short	36.00-37.99	60.00-63.99	71
Large Regular	36.00-37.99	64.00-67.99	96
Large Long	36.00-37.99	68.00-71.99	20
X-Large Short	38.00-39.99	60.00-63.99	27
X-Large Regular	38.00-39.99	64.00-67.99	39
X-Large Long	38.00-39.99	68.00-71.99	9
XX-Large Short	40.00-41.99	60.00-63.99	6
XX-Large Regular	40.00-41.99	64.00-67.99	9
XX-Large Long	40.00-41.99	68.00-71.99	1

Theoretical coverage of the population: 96.4%.

TABLE 8

HIP CIRCUMFERENCE (IN)

TABLE 9

## 8-SIZE LOWER BODY PROGRAM

<u>Size</u>	<u>Hip Circ</u>	<u>Crotch Ht</u>	<u>Tariff per Thousand</u>
Small Regular	32.50-35.49	26.50-29.49	91
Small Long	32.50-35.49	29.50-32.49	90
Medium Regular	35.50-38.49	27.00-29.99	274
Medium Long	35.50-38.49	30.00-32.99	205
Large Regular	38.50-41.49	27.50-30.49	150
Large Long	38.50-41.49	30.50-33.49	138
X-Large Regular	41.50-44.49	28.00-30.99	27
X-Large Long	41.50-44.49	31.00-33.99	25

Theoretical coverage of the population: 90.8%.

TABLE 10  
12-SIZE LOWER BODY PROGRAM BIVARIATE

CROTCH HEIGHT (IN)		24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5	180.0	180.5	181.0	181.5	182.0	182.5	183.0	183.5	184.0	184.5	185.0	185.5	186.0	186.5	187.0	187.5	188.0	188.5	189.0	189.5	190.0	190.5	191.0	191.5	192.0	192.5	193.0	193.5	194.0	194.5	195.0	195.5	196.0	196.5	197.0	197.5	198.0	198.5	199.0	199.5	200.0	200.5	201.0	201.5	202.0	202.5	203.0	203.5	204.0	204.5	205.0	205.5	206.0	206.5	207.0	207.5	208.0	208.5	209.0	209.5	210.0	210.5	211.0	211.5	212.0	212.5	213.0	213.5	214.0	214.5	215.0	215.5	216.0	216.5	217.0	217.5	218.0	218.5	219.0	219.5	220.0	220.5	221.0	221.5	222.0	222.5	223.0	223.5	224.0	224.5	225.0	225.5	226.0	226.5	227.0	227.5	228.0	228.5	229.0	229.5	230.0	230.5	231.0	231.5	232.0	232.5	233.0	233.5	234.0	234.5	235.0
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TABLE 11  
12-SIZE LOWER BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

Size	Hip Circ	Crotch Ht	Tariff per Thousand
Small Short	32.50-35.49	26.50-28.49	55
Small Regular	32.50-35.49	28.50-30.49	75
Small Long	32.50-35.49	30.50-32.49	51
Medium Short	35.50-38.49	27.00-28.99	131
Medium Regular	35.50-38.49	29.00-30.99	248
Medium Long	35.50-38.49	31.00-32.99	101
Large Short	38.50-41.49	27.50-29.49	76
Large Regular	38.50-41.49	29.50-31.49	128
Large Long	38.50-41.49	31.50-33.49	84
X-Large Short	41.50-44.49	28.00-29.99	14
X-Large Regular	41.50-44.49	30.00-31.99	27
X-Large Long	41.50-44.49	32.00-33.99	10

Theoretical coverage of the population: 90.8%.

TABLE 12  
18-SIZE LOWER BODY PROGRAM BIVARIATE

[illegible]

TABLE 13

18-SIZE LOWER BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Hip Circ</u>	<u>Crotch Ht</u>	<u>Tariff per Thousand</u>
X-Small Short	32.50-35.49	26.00-27.99	36
X-Small Regular	32.50-35.49	28.00-29.99	74
X-Small Long	32.50-35.49	30.00-31.99	58
X-Small X-Long	32.50-35.49	32.00-33.99	13
Small Short	35.50-38.49	26.50-28.49	78
Small Regular	35.50-38.49	28.50-30.49	250
Small Long	35.50-38.49	30.50-32.49	119
Small X-Long	35.50-38.49	32.50-34.49	32
Medium Short	38.50-41.49	27.00-28.99	52
Medium Regular	38.50-41.49	29.00-30.99	121
Medium Long	38.50-41.49	31.00-32.99	94
Medium X-Long	38.50-41.49	33.00-34.99	16
Large Short	41.50-44.49	27.50-29.49	11
Large Regular	41.50-44.49	29.50-31.49	23
Large Long	41.50-44.49	31.50-33.49	15
Large X-Long	41.50-44.49	33.50-35.49	3
X-Large Regular	44.50-47.49	30.00-31.99	3
X-Large Long	44.50-47.49	32.00-33.99	2

Theoretical coverage of the population: 96.2%.

TABLE 14  
6-SIZE TOTAL BODY PROGRAM BIVARIATE

WEIGHT (LB)	STATURE (IN)																				TOTAL
	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0	81.0	82.0	83.0	
110.0	1																				1
105.0																					
100.0																					
95.0																					
90.0																					
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45.0																					
40.0																					
35.0																					
30.0																					
25.0																					
20.0																					
15.0																					
10.0																					
5.0																					
TOTAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TABLE 15

6-SIZE TOTAL BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Stature</u>	<u>Weight</u>	<u>Tariff per Thousand</u>
Small Regular	58.50-62.99	100.00-129.99	227
Small Long	63.00-67.49	100.00-129.99	239
Medium Regular	60.50-64.99	130.00-159.99	241
Medium Long	65.00-69.49	130.00-159.99	234
Large Regular	62.50-66.99	160.00-189.99	25
Large Long	67.00-71.49	160.00-189.99	34

Theoretical coverage of the population: 92.0%.

TABLE 16

(87) HEIGHT

TABLE 17  
8-SIZE TOTAL BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Stature</u>	<u>Weight</u>	<u>Tariff per Thousand</u>
Small Regular	59.00-62.99	95.00-119.99	152
Small Long	63.00-66.99	95.00-119.99	101
Medium Regular	60.50-64.49	120.00-144.99	303
Medium Long	64.50-68.49	120.00-144.99	218
Large Regular	62.00-65.99	145.00-169.99	107
Large Long	66.00-69.99	145.00-169.99	93
X-Large Regular	63.50-67.49	170.00-194.99	17
X-Large Long	67.50-71.49	170.00-194.99	9

Theoretical coverage of the population: 91.3%.

TABLE 18  
12-SIZE TOTAL BODY PROGRAM BIVARIATE

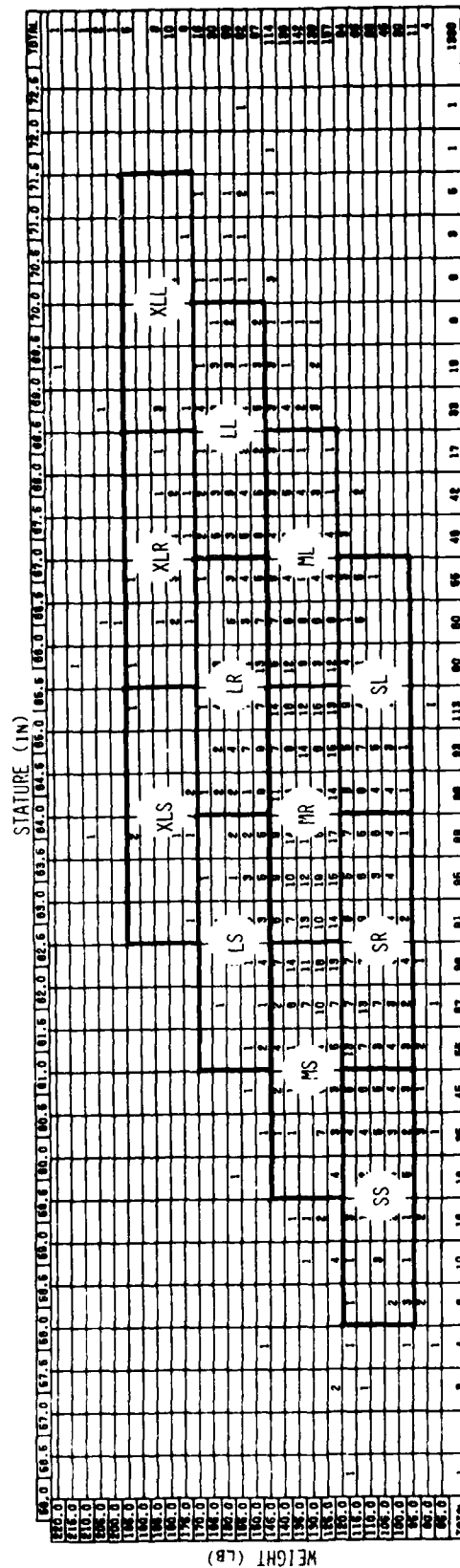




TABLE 19

12-SIZE TOTAL BODY PROGRAM  
SIZE CATEGORIES AND TARIFF

<u>Size</u>	<u>Stature</u>	<u>Weight</u>	<u>Tariff per Thousand</u>
Small Short	58.00-60.99	95.00-119.99	61
Small Regular	61.00-63.99	95.00-119.99	130
Small Long	64.00-66.99	95.00-119.99	64
Medium Short	59.50-62.49	120.00-144.99	121
Medium Regular	62.50-65.49	120.00-144.99	283
Medium Long	65.50-68.49	120.00-144.99	116
Large Short	61.00-63.99	145.00-169.99	33
Large Regular	64.00-66.99	145.00-169.99	98
Large Long	67.00-69.99	145.00-169.99	68
X-Large Short	62.50-65.49	170.00-194.99	8
X-Large Regular	65.50-68.49	170.00-194.99	13
X-Large Long	68.50-71.49	170.00-194.99	5

Theoretical coverage of the population: 93.8%.

## CHAPTER IV

### THE SIZING PROGRAMS

Tables 20 to 121 in this chapter contain a complete set of descriptive data for the nine sizing programs. These data include mid-size values, within-a-size standard deviations (SZSD's) and the range of sizes to be accommodated for each dimension in each size.

Highlighted on these tables, for the use of clothing designers, are recommended values -- one carefully selected value for each dimension computed from the upper end of the within-a-size distribution. The designer can select the dimensions critical to the pattern and garment to be created; find a recommended value for each of them on the appropriate table; add the requisite values for easing, seam allowances, etc.; and create a pattern for each size.

The dimensional data on these tables serve to document the range of body size variability within each size but, more importantly, they provide the designer with data needed to change or modify recommended size values to meet any number of specialized needs.

As previously noted, we computed recommended values from measurements of persons at the upper end of the body size range in each size category as the most likely means of accommodating all the persons in that size group but a designer may, for example, require lower end values for waist circumference on which to base measurements of an elastic strip required for the fabrication of an elasticized waistband. In that case, one option would be to simply select the lower of the range-to-be-accommodated values on the appropriate tables.

Designers can also compute values for any or all dimensions at any point within the range by the same means we used to arrive at the recommended values. Appendix B contains an explanation of the procedures for deriving alternate values and lists the regression equations required for these computations.

In using the tables in this chapter, the designer may notice that in a few cases larger sizes contain smaller values. These are not errors but reflect actual body proportions. Referring, for example, to the 6-size total body program, bust circumference has a smaller value in size small-long than in small-regular. This is to be expected since the small-long person weighs the same as her counterpart in size small-regular (120 pounds) but is three inches taller. That means the same amount of weight is stretched over a taller frame so it follows that the circumferences, breadths, and depths are likely to be smaller.

A similar phenomenon occurs with the dimension bust minus waist circumference in the total body size programs. Again, the smaller sizes have larger values for the dimension for example, small-regular has a larger value than either medium-regular or large-regular, and again it is a reflection of existing body proportions. In this case, the explanation lies in the fact that this dimension is a subtraction between two other dimensions and it happens that smaller women tend to have a larger difference between the two dimensions in question. Small women tend to have small waists but can have relatively large

bust circumferences resulting in a considerable difference between the two. Heavier women tend to have waist circumferences more similar to their bust circumferences causing the differences to be smaller.

The sizes in each program have been assigned adjectival names (such as, small-short, large-regular) but it should be made clear that similar designations do not mean the same things in different size programs. Thus, for example, the small-regular in the 6-size total body program encompasses a slightly different group of women than does the small-regular in the 8-size total body program and differs markedly from the size group it describes in the 12-size program. (This can be seen at a glance on the bivariate tables in Chapter III.)

Finally, it should be noted that hyphens appearing in the names of the dimensions on the following tables are minus signs indicating the dimension arrived at by the subtraction of one dimension from the other. Thus, "ACROMION - AXILLA" length is the relatively short span left over when the height of the axilla (armpit) is subtracted from acromion (shoulder) height -- that is, approximately the length of an armhole. When the dimension named represents the distance between one landmark and another, the variable name contains the word "to" as in "AXILLA TO WAIST" length.

DESCRIPTIVE DATA FOR THE SIZING PROGRAMS

TABLE 20

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 30.50 - 33.49  
 THE RANGE FOR STATURE 59.50 - 63.49

N = 193      TARIFF PERCENTAGE = 16.83%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	110.31	10.47	93.03 - 127.58	123.76
***HEIGHTS***					
AXILLA HEIGHT	4	46.31	1.10	44.49 - 48.12	47.97
BUSTPOINT HEIGHT	5	44.53	1.22	42.52 - 46.54	46.09
BUTTOCK HEIGHT	8	31.36	1.23	29.33 - 33.39	32.57
CERVICAL HEIGHT	71	53.14	1.13	51.28 - 55.00	54.97
CROTCH HEIGHT	7	28.61	1.10	26.79 - 30.44	29.73
SHOULDER HEIGHT	3	50.07	1.16	48.14 - 51.99	51.91
STATURE	2	61.50	1.15	59.59 - 63.41	63.50
WAIST HEIGHT	6	38.09	1.23	36.06 - 40.12	39.49
***LENGTHS***					
ACROMION - AXILLA	72	3.76	.35	3.18 - 4.34	3.94
AXILLA TO WAIST	50	8.79	.95	7.21 - 10.36	9.01
CERVICAL-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	8.62	.74	7.39 - 9.84	8.88
CERVICAL-BUTTOCK	78	21.78	1.07	20.81 - 23.55	22.40
NECK TO BUSTPOINT	49	9.31	.65	8.23 - 10.39	9.69
SLEEVE INSEAM	51	17.00	.77	15.73 - 18.27	17.57
SLEEVE OUTSEAM	52	20.22	.83	18.85 - 21.60	20.94
SHOULDER TO ELBOW	13	12.61	.47	11.83 - 13.39	13.06
WAIST BACK	47	15.49	.92	13.97 - 17.02	15.93
WAIST FRONT	48	13.83	.94	12.29 - 15.38	14.24

\* UNITS ARE INCHES OR POUNDS

TABLE 20 (cont'd)

8 SIZE UPPER BODY  
SMALL REGULAR

	VAR NO	MID-SIZE SZ-SD VALUE		RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	13.84	.64	12.79 - 14.89	14.39
BICEPS CIRC, FLXD	33	9.85	.66	8.76 - 10.94	10.26
BUST CIRCUMFERENCE	27	32.00	.87	30.57 - 33.43	33.50
BUST-WAIST, CIRC.	79	6.40	1.63	3.71 - 9.10	6.60
CHEST CIRC AT SCYE	26	31.62	1.12	29.77 - 33.46	32.78
CHEST C BELOW BUST	28	27.51	1.13	25.64 - 29.37	28.61
ELBOW CIRC FLXD	34	9.71	.52	8.84 - 10.57	10.04
FOREARM CIRC, FLXD	35	9.19	.47	8.42 - 9.96	9.49
HIP CIRCUMFERENCE	30	35.18	1.75	32.29 - 38.08	36.65
NECK CIRCUMFERENCE	24	12.25	.51	11.41 - 13.08	12.55
SHOULDER CIRCUMFER	25	37.39	1.30	35.24 - 39.54	38.62
VERTICAL TRUNK CIR	31	57.46	1.87	54.38 - 60.54	59.49
WAIST CIRCUMFERENC	29	25.60	1.78	22.65 - 28.54	26.90
WRIST CIRCUMFERENC	36	5.57	.22	5.21 - 5.94	5.71
<b>***ARCS***</b>					
BACK ARC, BUST	44	15.37	.74	14.14 - 16.59	16.01
BACK ARC, HIP	46	17.50	1.15	15.60 - 19.40	18.22
BACK ARC, WAIST	45	12.74	.92	11.22 - 14.26	13.38
INTERSCYE BACK	42	14.31	.81	12.97 - 15.65	14.67
INTERSCYE FRONT	43	12.53	.58	11.58 - 13.49	12.86
SHOULDER LENGTH	41	5.73	.39	5.08 - 6.38	5.86
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	8.20	.46	7.44 - 8.96	8.64
CHEST BREADTH	20	18.41	.42	9.71 - 11.10	10.81
HIP BREADTH	22	13.10	.77	11.84 - 14.37	13.61
SHOULDER BREADTH	23	15.69	.58	14.74 - 16.64	16.20
WAIST BREADTH	21	9.26	.70	8.11 - 10.40	9.72
WAIST DEPTH	19	6.54	.62	5.52 - 7.57	6.89

TABLE 21

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL LONG

THE RANGE FOR BUST CIRCUMFERENCE 30.50 - 33.49  
 THE RANGE FOR STATURE 63.50 - 67.49

N = 160      TARIFF PERCENTAGE = 13.95%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	128.93	18.47	103.66 - 138.21	134.39
***HEIGHTS***					
AXILLA HEIGHT	4	49.62	1.10	47.80 - 51.43	51.28
BUSTPOINT HEIGHT	5	47.81	1.22	45.80 - 49.82	49.37
BUTTOCK HEIGHT	8	33.72	1.23	31.69 - 35.75	34.93
CERVICAL HEIGHT	71	56.63	1.13	54.77 - 58.49	58.46
CROTCH HEIGHT	7	30.97	1.18	29.14 - 32.79	32.08
SHOULDER HEIGHT	3	53.57	1.16	51.65 - 55.49	55.42
STATURE	2	65.50	1.15	63.59 - 67.41	67.50
WAIST HEIGHT	6	48.99	1.23	38.96 - 43.02	42.38
***LENGTHS***					
ACROMION - AXILLA	72	3.96	.35	3.37 - 4.54	4.13
AXILLA TO WAIST	50	9.22	.95	7.64 - 10.80	9.44
CERVICAL-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	8.82	.74	7.59 - 10.05	9.08
CERVICAL-BUTTOCK	78	22.91	1.07	21.14 - 24.68	23.53
NECK TO BUSTPOINT	49	9.48	.65	8.48 - 10.56	9.86
SLEEVE INSEAM	51	18.22	.77	16.95 - 19.48	18.79
SLEEVE OUTSEAM	52	21.64	.83	20.26 - 23.01	22.36
SHOULDER TO ELBOW	13	13.46	.47	12.68 - 14.24	13.91
WAIST BACK	47	16.33	.92	14.81 - 17.85	16.76
WAIST FRONT	48	14.32	.94	12.78 - 15.87	14.73

\* UNITS ARE INCHES OR POUNDS

TABLE 21 (cont'd)

8 SIZE UPPER BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.14	.64	13.09 - 15.19	14.69
BICEPS CIRC, FLXD	33	9.90	.66	8.82 - 10.99	10.31
BUST CIRCUMFERENCE	27	32.00	.87	30.57 - 33.43	33.50
BUST-WAIST, CIRC.	79	6.32	1.63	3.63 - 9.02	6.52
CHEST CIRC AT SCYE	26	31.87	1.12	30.02 - 33.71	33.03
CHEST C BELOW BUST	28	27.73	1.13	25.87 - 29.60	28.83
ELBOW CIRC FLXD	34	10.07	.52	9.21 - 10.94	10.41
FOREARM CIRC, FLXD	35	9.37	.47	8.60 - 10.14	9.67
HIP CIRCUMFERENCE	30	36.19	1.75	33.30 - 39.08	37.65
NECK CIRCUMFERENCE	24	12.47	.51	11.64 - 13.31	12.78
SHOULDER CIRCUMFER	25	37.86	1.30	35.71 - 40.01	39.89
VERTICAL TRUNK CIR	31	59.86	1.87	56.78 - 62.94	61.89
WAIST CIRCUMFERENC	29	25.68	1.78	22.73 - 28.62	26.98
WRIST CIRCUMFERENC	36	5.73	.22	5.36 - 6.09	5.87
***ARCS***					
BACK ARC, BUST	44	15.39	.74	14.17 - 16.62	16.03
BACK ARC, HIP	46	17.92	1.15	16.02 - 19.82	18.63
BACK ARC, WAIST	45	12.77	.92	11.25 - 14.29	13.41
INTERSCYE BACK	42	14.56	.81	13.22 - 15.90	14.92
INTERSCYE FRONT	43	12.84	.58	11.89 - 13.79	13.17
SHOULDER LENGTH	41	5.97	.39	5.32 - 6.62	6.10
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.13	.46	7.36 - 8.89	8.57
CHEST BREADTH	20	10.48	.42	9.79 - 11.18	10.89
HIP BREADTH	22	13.51	.77	12.25 - 14.78	14.02
SHOULDER BREADTH	23	15.95	.58	15.00 - 16.90	16.46
WAIST BREADTH	21	9.37	.70	8.22 - 10.52	9.83
WAIST DEPTH	19	6.47	.62	5.45 - 7.49	6.82



TABLE 22

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 33.50 - 36.49  
 THE RANGE FOR STATURE 50.50 - 64.49

N = 282      TARIFF PERCENTAGE = 24.59%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	129.25	10.47	111.97 - 146.52	142.70
***HEIGHTS***					
AXILLA HEIGHT	4	47.16	1.10	45.34 - 48.97	48.82
BUSTPOINT HEIGHT	5	45.20	1.22	43.19 - 47.21	46.77
BUTTOCK HEIGHT	8	32.02	1.23	29.99 - 34.05	33.23
CERVICAL HEIGHT	71	54.19	1.13	52.33 - 56.05	56.02
CROTCH HEIGHT	7	29.08	1.10	27.26 - 30.90	30.20
SHOULDER HEIGHT	3	51.12	1.16	49.20 - 53.04	52.96
STATURE	2	62.50	1.15	60.59 - 64.41	64.50
WAIST HEIGHT	6	38.71	1.23	36.68 - 40.74	40.10
***LENGTHS***					
ACROMION - AXILLA	72	3.96	.35	3.38 - 4.55	4.14
AXILLA TO WAIST	50	8.92	.95	7.34 - 10.49	9.14
CERVICAL-ACROMION	73	3.07	.30	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	8.99	.74	7.76 - 10.22	9.25
CERVICAL-BUTTOCK	78	22.17	1.07	20.40 - 23.94	22.79
NECK TO BUSTPOINT	49	9.94	.65	8.86 - 11.01	10.32
SLEEVE INSEAM	51	17.23	.77	15.96 - 18.49	17.80
SLEEVE OUTSEAM	52	20.60	.83	19.22 - 21.97	21.31
SHOULDER TO ELBOW	13	12.87	.47	12.09 - 13.65	13.32
WAIST BACK	47	15.74	.92	14.22 - 17.26	16.18
WAIST FRONT	48	14.29	.94	12.75 - 15.84	14.70

\* UNITS ARE INCHES OR POUNDS

TABLE 22 (cont'd)

8 SIZE UPPER BODY  
MEDIUM REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.72	.64	13.67 - 15.77	15.27
BICEPS CIRC, FLXD	33	10.63	.66	9.54 - 11.71	11.03
BUST CIRCUMFERENCE	27	35.00	.87	33.57 - 36.43	36.50
BUST-WAIST, CIRC.	79	6.85	1.63	4.16 - 9.55	7.05
CHEST CIRC AT SCYE	26	33.76	1.12	31.92 - 35.61	34.93
CHEST C BELOW BUST	28	29.54	1.13	27.67 - 31.41	30.64
ELBOW CIRC FLXD	34	10.10	.52	9.24 - 10.97	10.44
FOREARM CIRC, FLXD	35	9.66	.47	8.89 - 10.43	9.96
HIP CIRCUMFERENCE	30	37.36	1.75	34.46 - 40.25	38.82
NECK CIRCUMFERCNE	24	12.68	.51	11.84 - 13.51	12.98
SHOULDER CIRCUMFER	25	39.50	1.30	37.35 - 41.66	40.74
VERTICAL TRUNK CIR	31	59.72	1.87	56.64 - 62.80	61.75
WAIST CIRCUMFERENC	29	28.15	1.78	25.20 - 31.09	29.45
WRIST CIRCUMFERENC	36	5.74	.22	5.37 - 6.10	5.88
***ARCS***					
BACK ARC, BUST	44	16.62	.74	15.40 - 17.85	17.26
BACK ARC, HIP	46	18.62	1.15	16.72 - 20.52	19.33
BACK ARC, WAIST	45	14.00	.92	12.48 - 15.52	14.64
INTERSCYE BACK	42	14.84	.81	13.50 - 16.19	15.20
INTERSCYE FRONT	43	12.97	.58	12.01 - 13.92	13.29
SHOULDER LENGTH	41	5.81	.39	5.16 - 6.46	5.93
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.14	.46	8.38 - 9.90	9.58
CHEST BREADTH	20	11.15	.42	10.46 - 11.85	11.56
HIP BREADTH	22	13.81	.77	12.54 - 15.07	14.31
SHOULDER BREADTH	23	16.51	.58	15.56 - 17.46	17.02
WAIST BREADTH	21	10.10	.70	8.95 - 11.24	10.56
WAIST DEPTH	19	7.30	.62	6.28 - 8.32	7.65

# 8 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM LONG

THE RANGE FOR BUST CIRCUMFERENCE 33.50 - 36.49  
THE RANGE FOR STATURE 64.50 - 68.49

N = 260 TARIFF PERCENTAGE = 22.67%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	139.87	10.47	122.60 - 157.15	153.33
***HEIGHTS***					
AXILLA HEIGHT	4	50.47	1.10	48.65 - 52.28	52.13
BUSTPOINT HEIGHT	5	48.48	1.22	46.47 - 50.49	50.05
BUTTOCK HEIGHT	8	34.38	1.23	32.35 - 36.41	35.59
CERVICALE HEIGHT	71	57.67	1.13	55.81 - 59.54	59.51
CROTCH HEIGHT	7	31.43	1.10	29.61 - 33.26	32.55
SHOULDER HEIGHT	3	54.63	1.16	52.71 - 56.55	56.47
STATURE	2	66.50	1.15	64.59 - 68.41	68.50
WAIST HEIGHT	6	41.60	1.23	39.57 - 43.64	43.00
***LENGTHS***					
ACROMION - AXILLA	72	4.16	.35	3.58 - 4.74	4.34
AXILLA TO WAIST	50	9.35	.95	7.77 - 10.92	9.57
CERVICALE-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.19	.74	7.97 - 10.42	9.46
CERVICALE-BUTTOCK	78	23.30	1.07	21.53 - 25.07	23.92
NECK TO BUSTPOINT	49	10.11	.65	9.03 - 11.19	10.49
SLEEVE INSEAM	51	18.45	.77	17.18 - 19.71	19.02
SLEEVE OUTSEAM	52	22.01	.83	20.63 - 23.39	22.73
SHOULDER TO ELBOW	13	13.72	.47	12.94 - 14.50	14.17
WAIST BACK	47	16.57	.92	15.05 - 18.09	17.01
WAIST FRONT	48	14.78	.94	13.23 - 16.32	15.19

\* UNITS ARE INCHES OR POUNDS

TABLE 23 (cont'd)

8 SIZE UPPER BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.02	.64	13.97 - 16.07	15.57
BICEPS CIRC, FLXD	33	10.68	.66	9.59 - 11.77	11.09
BUST CIRCUMFERENCE	27	35.00	.87	33.57 - 36.43	36.50
BUST-WAIST, CIRC.	79	6.77	1.63	4.08 - 9.47	6.96
CHEST CIRC AT SCYE	26	34.01	1.12	32.17 - 35.86	35.18
CHEST C BELOW BUST	28	29.76	1.13	27.90 - 31.63	30.87
ELBOW CIRC FLXD	34	10.47	.52	9.61 - 11.33	10.81
FOREARM CIRC, FLXD	35	9.84	.47	9.07 - 10.61	10.14
HIP CIRCUMFERENCE	30	38.36	1.75	35.47 - 41.26	39.83
NECK CIRCUMFERENCE	24	12.91	.51	12.07 - 13.74	13.21
SHOULDER CIRCUMFER	25	39.97	1.30	37.82 - 42.13	41.21
VERTICAL TRUNK CIR	31	62.12	1.87	59.04 - 65.20	64.15
WAIST CIRCUMFERENC	29	28.23	1.78	25.29 - 31.17	29.54
WRIST CIRCUMFERENC	36	5.89	.22	5.52 - 6.26	6.03
***ARCS***					
BACK ARC, BUST	44	16.65	.74	15.43 - 17.88	17.29
BACK ARC, HIP	46	19.03	1.15	17.13 - 20.93	19.75
BACK ARC, WAIST	45	14.03	.92	12.51 - 15.55	14.67
INTERSCYE BACK	42	15.09	.81	13.75 - 16.44	15.45
INTERSCYE FRONT	43	13.27	.58	12.32 - 14.22	13.60
SHOULDER LENGTH	41	6.05	.39	5.40 - 6.69	6.17
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.07	.46	8.30 - 9.83	9.51
CHEST BREADTH	20	11.23	.42	10.53 - 11.93	11.63
HIP BREADTH	22	14.22	.77	12.95 - 15.48	14.72
SHOULDER BREADTH	23	16.78	.58	15.83 - 17.73	17.29
WAIST BREADTH	21	10.21	.70	9.06 - 11.36	10.67
WAIST DEPTH	19	7.22	.62	6.20 - 8.25	7.57

TABLE 24

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 36.50 - 39.49

THE RANGE FOR STATURE 61.50 - 65.49

N = 128      TARIFF PERCENTAGE = 11.16%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	148.19	10.47	130.91 - 165.46	161.64
***HEIGHTS***					
AXILLA HEIGHT	4	48.00	1.10	46.19 - 49.82	49.67
BUSTPOINT HEIGHT	5	45.88	1.22	43.87 - 47.89	47.44
BUTTOCK HEIGHT	8	32.68	1.23	30.65 - 34.71	33.89
CERVICALE HEIGHT	71	55.24	1.13	53.38 - 57.10	57.07
CROTCH HEIGHT	7	29.55	1.10	27.72 - 31.37	30.66
SHOULDER HEIGHT	3	52.17	1.16	50.25 - 54.09	54.81
STATURE	2	63.50	1.15	61.59 - 65.41	65.50
WAIST HEIGHT	6	39.33	1.23	37.29 - 41.36	40.72
***LENGTHS***					
ACROMION - AXILLA	72	4.17	.35	3.58 - 4.75	4.34
AXILLA TO WAIST	50	9.04	.95	7.47 - 10.62	9.27
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.56	3.05
CERV. - BUSTPOINT	74	9.36	.74	8.13 - 10.59	9.62
CERVICALE-BUTTOCK	78	22.55	1.87	20.79 - 24.32	23.17
NECK TO BUSTPOINT	49	10.57	.65	9.49 - 11.64	10.94
SLEEVE INSEAM	51	17.45	.77	16.19 - 18.72	18.03
SLEEVE OUTSEAM	52	20.97	.83	19.59 - 22.34	21.69
SHOULDER TO ELBOW	13	13.13	.47	12.35 - 13.91	13.58
WAIST BACK	47	15.99	.92	14.47 - 17.51	16.42
WAIST FRONT	48	14.75	.94	13.20 - 16.29	15.16

\* UNITS ARE INCHES OR POUNDS

TABLE 24 (cont'd)

8 SIZE UPPER BODY  
LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.60	.64	14.55 - 16.65	16.15
BICEPS CIRC, FLXD	33	11.40	.66	10.32 - 12.49	11.81
BUST CIRCUMFERENCE	27	38.00	.87	36.57 - 39.43	39.50
BUST-WAIST, CIRC.	79	7.30	1.63	4.60 - 9.99	7.49
CHEST CIRC AT SCYE	26	35.91	1.12	34.06 - 37.75	37.08
CHEST C BELOW BUST	28	31.57	1.13	29.71 - 33.44	32.67
ELBOW CIRC FLXD	34	10.50	.52	9.64 - 11.36	10.84
FOREARM CIRC, FLXD	35	10.13	.47	9.36 - 10.90	10.43
HIP CIRCUMFERENCE	30	39.53	1.75	36.64 - 42.43	41.00
NECK CIRCUMFERENCE	24	13.11	.51	12.28 - 13.95	13.41
SHOULDER CIRCUMFER	25	41.62	1.30	39.47 - 43.77	42.86
VERTICAL TRUNK CIR	31	61.99	1.87	58.91 - 65.07	64.02
WAIST CIRCUMFERENC	29	38.70	1.78	27.76 - 33.64	32.01
WRIST CIRCUMFERENC	36	5.90	.22	5.53 - 6.27	6.04
***ARCS***					
BACK ARC, BUST	44	17.88	.74	16.66 - 19.11	18.52
BACK ARC, HIP	46	19.74	1.15	17.84 - 21.64	20.45
BACK ARC, WAIST	45	15.26	.92	13.73 - 16.78	15.90
INTERSCYE BACK	42	15.38	.81	14.03 - 16.72	15.74
INTERSCYE FRONT	43	13.40	.58	12.44 - 14.35	13.72
SHOULDER LENGTH	41	5.88	.39	5.23 - 6.53	6.01
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.08	.46	9.32 - 10.84	10.52
CHEST BREADTH	20	11.90	.42	11.20 - 12.60	12.30
HIP BREADTH	22	14.51	.77	13.25 - 15.78	15.02
SHOULDER BREADTH	23	17.33	.58	16.38 - 18.28	17.84
WAIST BREADTH	21	10.93	.70	9.79 - 12.08	11.40
WAIST DEPTH	19	8.06	.62	7.83 - 9.08	8.41

TABLE 25

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 36.50 - 39.49  
 THE RANGE FOR STATURE 65.50 - 69.49

N = 96      TARIFF PERCENTAGE = 8.37%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	158.81	10.47	141.54 - 176.09	172.27
***HEIGHTS***					
AXILLA HEIGHT	4	51.32	1.10	49.50 - 53.13	52.98
BUSTPOINT HEIGHT	5	49.16	1.22	47.15 - 51.17	50.72
BUTTOCK HEIGHT	8	35.04	1.23	33.00 - 37.07	36.25
CERVICALE HEIGHT	71	58.72	1.13	56.86 - 68.58	60.55
CROTCH HEIGHT	7	31.90	1.10	30.08 - 33.72	33.01
SHOULDER HEIGHT	3	55.68	1.16	53.76 - 57.60	57.52
STATURE	2	67.50	1.15	65.59 - 69.41	69.50
WAIST HEIGHT	6	42.22	1.23	40.19 - 44.25	43.61
***LENGTHS***					
ACROMION - AXILLA	72	4.36	.35	3.78 - 4.95	4.54
AXILLA TO WAIST	50	9.47	.95	7.90 - 11.05	9.70
CERVICALE-ACROMION	73	3.84	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.57	.74	8.34 - 10.79	9.83
CERVICALE-BUTTOCK	78	23.69	1.07	21.92 - 25.46	24.30
NECK TO BUSTPOINT	49	18.74	.65	9.66 - 11.81	11.11
SLEEVE INSEAM	51	18.67	.77	17.41 - 19.94	19.25
SLEEVE OUTSEAM	52	22.38	.83	21.01 - 23.76	23.10
SHOULDER TO ELBOW	13	13.98	.47	13.20 - 14.76	14.43
WAIST BACK	47	16.82	.92	15.30 - 18.34	17.26
WAIST FRONT	48	15.24	.94	13.69 - 16.78	15.65

\* UNITS ARE INCHES OR POUNDS

TABLE 25 (cont'd)

8 SIZE UPPER BODY  
LARGE LONG

	VAR NO	MID-SIZE SZ-SD VALUE		RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.90	.64	14.85 - 16.95	16.45
BICEPS CIRC, FLXD	33	11.45	.66	10.37 - 12.54	11.86
BUST CIRCUMFERENCE	27	38.00	.87	36.57 - 39.43	39.50
BUST-WAIST, CIRC.	79	7.22	1.63	4.52 - 9.91	7.41
CHEST CIRC AT SCYE	26	36.16	1.12	34.32 - 38.00	37.33
CHEST C BELOW BUST	28	31.80	1.13	29.93 - 33.66	32.90
ELBOW CIRC FLXD	34	10.87	.52	10.00 - 11.73	11.20
FOREARM CIRC, FLXD	35	10.31	.47	9.54 - 11.08	10.61
HIP CIRCUMFERENCE	30	40.54	1.75	37.65 - 43.43	42.00
NECK CIRCUMFERENCE	24	13.34	.51	12.51 - 14.17	13.64
SHOULDER CIRCUMFER	25	42.09	1.30	39.94 - 44.24	43.33
VERTICAL TRUNK CIR	31	64.38	1.87	61.30 - 67.46	66.41
WAIST CIRCUMFERENCE	29	30.78	1.78	27.84 - 33.73	32.89
WRIST CIRCUMFERENCE	36	6.06	.22	5.69 - 6.42	6.20
***ARCS***					
BACK ARC, BUST	44	17.91	.74	16.68 - 19.13	18.55
BACK ARC, HIP	46	20.15	1.15	18.25 - 22.85	20.87
BACK ARC, WAIST	45	15.29	.92	13.77 - 16.81	15.93
INTERSCYE BACK	42	15.63	.81	14.28 - 16.97	15.99
INTERSCYE FRONT	43	13.70	.58	12.75 - 14.65	14.03
SHOULDER LENGTH	41	6.12	.39	5.47 - 6.77	6.25
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.01	.45	9.25 - 10.77	10.45
CHEST BREADTH	20	11.98	.42	11.28 - 12.67	12.38
HIP BREADTH	22	14.92	.77	13.66 - 16.19	15.43
SHOULDER BREADTH	23	17.60	.58	16.65 - 18.55	18.11
WAIST BREADTH	21	11.05	.70	9.90 - 12.20	11.51
WAIST DEPTH	19	7.98	.62	6.96 - 9.00	8.33



TABLE 26

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 39.50 - 42.49

THE RANGE FOR STATURE 62.50 - 66.49

N = 20      TARIFF PERCENTAGE = 1.74%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	167.13	10.47	149.65 - 184.40	180.58
***HEIGHTS***					
AXILLA HEIGHT	4	48.85	1.10	47.04 - 50.67	50.52
BUSTPOINT HEIGHT	5	46.55	1.22	44.54 - 48.56	48.12
BUTTOCK HEIGHT	8	33.34	1.23	31.31 - 35.37	34.55
CERVICALE HEIGHT	71	56.28	1.13	54.42 - 58.14	58.11
CROTCH HEIGHT	7	30.01	1.10	28.19 - 31.84	31.13
SHOULDER HEIGHT	3	53.22	1.16	51.30 - 55.14	55.07
STATURE	2	64.50	1.15	62.59 - 66.41	66.50
WAIST HEIGHT	6	39.94	1.23	37.91 - 41.97	41.34
***LENGTHS***					
ACROMION - AXILLA	72	4.37	.35	3.79 - 4.95	4.55
AXILLA TO WAIST	50	9.17	.95	7.60 - 10.75	9.40
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.05
CERV. - BUSTPOINT	74	9.73	.74	8.51 - 10.96	10.00
CERVICALE-BUTTOCK	78	22.94	1.07	21.17 - 24.71	23.56
NECK TO BUSTPOINT	49	11.19	.65	10.12 - 12.27	11.57
SLEEVE INSEAM	51	17.68	.77	16.42 - 18.95	18.26
SLEEVE OUTSEAM	52	21.34	.83	19.97 - 22.72	22.06
SHOULDER TO ELBOW	13	13.39	.47	12.61 - 14.17	13.84
WAIST BACK	47	16.23	.92	14.71 - 17.76	16.67
WAIST FRONT	48	15.21	.94	13.66 - 16.75	15.62

\* UNITS ARE INCHES OR POUNDS

TABLE 26 (cont'd)

8 SIZE UPPER BODY  
X-LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.48	.64	15.43 - 17.53	17.03
BICEPS CIRC, FLXD	33	12.18	.66	11.09 - 13.26	12.58
BUST CIRCUMFERENCE	27	41.00	.87	39.57 - 42.43	42.50
BUST-WAIST, CIRC.	79	7.75	1.63	5.05 - 10.44	7.94
CHEST CIRC AT SCYE	26	38.86	1.12	36.21 - 39.90	39.22
CHEST C BELOW BUST	28	33.60	1.13	31.74 - 35.47	34.71
ELBOW CIRC FLXD	34	10.90	.52	10.03 - 11.76	11.23
FOREARM CIRC, FLXD	35	10.59	.47	9.82 - 11.37	10.90
HIP CIRCUMFERENCE	30	41.71	1.75	38.81 - 44.60	43.17
NECK CIRCUMFERENCE	24	13.54	.51	12.71 - 14.38	13.85
SHOULDER CIRCUMFER	25	43.74	1.30	41.59 - 45.89	44.97
VERTICAL TRUNK CIR	31	64.25	1.87	61.17 - 67.33	66.28
WAIST CIRCUMFERENC	29	33.25	1.78	30.31 - 36.20	34.56
WRIST CIRCUMFERENC	36	6.07	.22	5.70 - 6.43	6.21
***ARCS***					
BACK ARC, BUST	44	19.14	.74	17.91 - 20.36	19.78
BACK ARC, HIP	46	20.86	1.15	18.96 - 22.76	21.57
BACK ARC, WAIST	45	16.51	.92	14.99 - 18.84	17.16
INTERSCYE BACK	42	15.91	.81	14.57 - 17.25	16.27
INTERSCYE FRONT	43	13.83	.58	12.88 - 14.78	14.16
SHOULDER LENGTH	41	5.96	.39	5.31 - 6.61	6.08
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	11.02	.46	10.26 - 11.78	11.46
CHEST BREADTH	20	12.65	.42	11.95 - 13.34	13.05
HIP BREADTH	22	15.22	.77	13.95 - 16.49	15.73
SHOULDER BREADTH	23	18.16	.58	17.21 - 19.11	18.67
WAIST BREADTH	21	11.77	.78	10.63 - 12.92	12.24
WAIST DEPTH	19	8.81	.62	7.79 - 9.83	9.16

TABLE 27

## 8 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 39.50 - 42.49  
 THE RANGE FOR STATURE 66.50 - 70.49

N = 8      TARIFF PERCENTAGE = .70%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	177.75	10.47	160.48 - 195.03	191.21
***HEIGHTS***					
AXILLA HEIGHT	4	52.16	1.10	50.35 - 53.98	53.83
BUSTPOINT HEIGHT	5	49.83	1.22	47.82 - 51.84	51.40
BUTTOCK HEIGHT	8	35.69	1.23	33.66 - 37.73	36.91
CERVICALE HEIGHT	71	59.77	1.13	57.91 - 61.63	61.60
CROTCH HEIGHT	7	32.37	1.10	30.54 - 34.19	33.48
SHOULDER HEIGHT	3	56.73	1.16	54.81 - 58.65	58.58
STATURE	2	68.58	1.15	66.59 - 70.41	70.50
WAIST HEIGHT	6	42.84	1.23	40.81 - 44.87	44.23
***LENGTHS***					
ACROMION - AXILLA	72	4.57	.35	3.99 - 5.15	4.74
AXILLA TO WAIST	50	9.60	.95	8.03 - 11.18	9.83
CERVICALE-ACROMION	73	3.04	.30	2.54 - 3.53	3.02
CERV. - BUSTPOINT	74	9.94	.74	8.71 - 11.17	10.20
CERVICALE-BUTTOCK	78	24.07	1.07	22.30 - 25.84	24.69
NECK TO BUSTPOINT	49	11.36	.65	10.29 - 12.44	11.74
SLEEVE INSEAM	51	18.90	.77	17.64 - 20.17	19.47
SLEEVE OUTSEAM	52	22.76	.83	21.38 - 24.13	23.47
SHOULDER TO ELBOW	13	14.24	.47	13.46 - 15.02	14.69
WAIST BACK	47	17.07	.92	15.55 - 18.59	17.50
WAIST FRONT	48	15.69	.94	14.15 - 17.24	16.11

\* UNITS ARE INCHES OR POUNDS

TABLE 27 (cont'd)

8 SIZE UPPER BODY  
X-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.78	.64	15.73 - 17.83	17.33
BICEPS CIRC, FLXD	33	12.23	.66	11.14 - 13.32	12.64
BUST CIRCUMFERENCE	27	41.00	.87	39.57 - 42.43	42.50
BUST-WAIST, CIRC.	79	7.67	1.63	4.97 - 10.36	7.86
CHEST CIRC AT SCYE	26	38.31	1.12	36.46 - 40.15	39.47
CHEST C BELOW BUST	28	33.83	1.13	31.96 - 35.70	34.93
ELBOW CIRC FLXD	34	11.26	.52	10.40 - 12.13	11.60
FOREARM CIRC, FLXD	35	10.77	.47	10.00 - 11.55	11.08
HIP CIRCUMFERENCE	30	42.72	1.75	39.82 - 45.61	44.18
NECK CIRCUMFERENCE	24	13.77	.51	12.94 - 14.61	14.07
SHOULDER CIRCUMFER	25	44.21	1.30	42.06 - 46.36	45.44
VERTICAL TRUNK CIR	31	66.65	1.87	63.57 - 69.73	68.68
WAIST CIRCUMFERENCE	29	33.33	1.78	30.39 - 36.28	34.64
WRIST CIRCUMFERENCE	36	6.22	.22	5.85 - 6.59	6.36
***ARCS***					
BACK ARC, BUST	44	19.16	.74	17.94 - 20.39	19.80
BACK ARC, HIP	46	21.27	1.15	19.37 - 23.17	21.98
BACK ARC, WAIST	45	16.55	.92	15.02 - 18.07	17.19
INTERSCYE BACK	42	16.16	.81	14.82 - 17.50	16.52
INTERSCYE FRONT	43	14.13	.58	13.18 - 15.08	14.46
SHOULDER LENGTH	41	6.19	.39	5.55 - 6.84	6.32
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.95	.46	10.19 - 11.71	11.39
CHEST BREADTH	20	12.72	.42	12.03 - 13.42	13.13
HIP BREADTH	22	15.63	.77	14.36 - 16.90	16.14
SHOULDER BREADTH	23	18.42	.58	17.47 - 19.37	18.93
WAIST BREADTH	21	11.89	.70	10.74 - 13.04	12.35
WAIST DEPTH	19	8.74	.62	7.71 - 9.76	9.09

TABLE 28

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL SHORT

THE RANGE FOR BUST CIRCUMFERENCE 30.50 - 33.49  
 THE RANGE FOR STATURE 59.00 - 61.99

N = 110      TARIFF PERCENTAGE = 9.20%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.65	10.27	90.70 - 124.60	119.78
***HEIGHTS***					
AXILLA HEIGHT	4	45.48	.90	43.99 - 46.96	46.73
BUSTPOINT HEIGHT	5	43.71	1.04	41.98 - 45.43	44.86
BUTTOCK HEIGHT	8	30.77	1.15	28.88 - 32.66	31.69
CERVICALE HEIGHT	71	52.27	.91	50.77 - 53.77	53.67
CROTCH HEIGHT	7	28.03	1.01	26.36 - 29.69	28.85
SHOULDER HEIGHT	3	49.19	.95	47.62 - 50.76	50.59
STATURE	2	60.50	.87	59.07 - 61.93	62.00
WAIST HEIGHT	6	37.37	1.10	35.56 - 39.18	38.40
***LENGTHS***					
ACROMION - AXILLA	72	3.71	.35	3.13 - 4.29	3.86
AXILLA TO WAIST	50	8.68	.95	7.11 - 10.25	8.85
CERVICALE-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	8.56	.74	7.34 - 9.79	8.80
CERVICALE-BUTTOCK	78	21.50	1.05	19.76 - 23.23	21.97
NECK TO BUSTPOINT	49	9.27	.65	8.19 - 18.34	9.62
SLEEVE INSEAM	51	18.69	.73	15.48 - 17.90	17.11
SLEEVE OUTSEAM	52	19.87	.79	18.57 - 21.17	20.41
SHOULDER TO ELBOW	13	12.39	.44	11.66 - 13.13	12.74
WAIST BACK	47	15.29	.91	13.79 - 16.78	15.62
WAIST FRONT	48	13.71	.93	12.17 - 15.25	14.06

\* UNITS ARE INCHES OR POUNDS

TABLE 28 (cont'd)

12 SIZE UPPER BODY  
SMALL SHORT

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	13.77	.63	12.72 - 14.81	14.28
BICEPS CIRC, FLXD	33	9.84	.66	8.75 - 10.93	10.24
BUST CIRCUMFERENCE	27	32.00	.87	30.57 - 33.43	33.50
BUST-WAIST, CIRC.	79	6.42	1.63	3.73 - 9.12	6.63
CHEST CIRC AT SCYE	26	31.55	1.12	29.71 - 33.40	32.69
CHEST C BELOW BUST	28	27.45	1.13	25.59 - 29.32	28.52
ELBOW CIRC FLXD	34	9.61	.52	8.76 - 10.47	9.98
FOREARM CIRC, FLXD	35	9.15	.47	8.38 - 9.92	9.43
HIP CIRCUMFERENCE	30	34.93	1.74	32.05 - 37.81	36.27
NECK CIRCUMFERCNE	24	12.19	.50	11.36 - 13.02	12.46
SHOULDER CIRCUMFER	25	37.27	1.30	35.12 - 39.42	38.45
VERTICAL TRUNK CIR	31	56.86	1.81	53.88 - 59.85	58.59
WAIST CIRCUMFERENC	29	25.58	1.78	22.63 - 28.52	26.87
WRIST CIRCUMFERENC	36	5.53	.22	5.17 - 5.98	5.65
***ARCS***					
BACK ARC, BUST	44	15.36	.74	14.14 - 16.59	16.00
BACK ARC, HIP	46	17.40	1.15	15.51 - 19.30	18.06
BACK ARC, WAIST	45	12.73	.92	11.21 - 14.25	13.37
INTERSCYE BACK	42	14.25	.81	12.91 - 15.59	14.58
INTERSCYE FRONT	43	12.46	.57	11.51 - 13.40	12.75
SHOULDER LENGTH	41	5.67	.39	5.03 - 6.32	5.77
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.22	.46	7.46 - 8.98	8.67
CHEST BREADTH	20	10.39	.42	9.69 - 11.08	10.78
HIP BREADTH	22	13.00	.76	11.74 - 14.26	13.45
SHOULDER BREADTH	23	15.62	.57	14.68 - 16.57	16.10
WAIST BREADTH	21	9.23	.70	8.08 - 10.38	9.68
WAIST DEPTH	19	6.56	.62	5.54 - 7.58	6.92

TABLE 29

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 30.50 - 33.49  
 THE RANGE FOR STATURE 62.00 - 64.99

N = 178      TARIFF PERCENTAGE = 14.88%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	115.62	10.27	98.67 - 132.57	127.75
***HEIGHTS***					
AXILLA HEIGHT	4	47.96	.90	46.48 - 49.45	49.21
BUSTPOINT HEIGHT	5	46.17	1.04	44.44 - 47.89	47.32
BUTTOCK HEIGHT	8	32.54	1.15	30.65 - 34.43	33.46
CERVICALE HEIGHT	71	54.89	.91	53.38 - 56.39	56.28
CROTCH HEIGHT	7	29.79	1.01	28.12 - 31.46	30.61
SHOULDER HEIGHT	3	51.82	.95	50.25 - 53.39	53.22
STATURE	2	63.50	.87	62.07 - 64.93	65.00
WAIST HEIGHT	6	39.54	1.10	37.73 - 41.36	40.57
***LENGTHS***					
ACROMION - AXILLA	72	3.86	.35	3.28 - 4.44	4.01
AXILLA TO WAIST	50	9.00	.95	7.43 - 10.57	9.18
CERVICALE-ACROMION	73	3.07	.30	2.57 - 3.56	3.06
CERV. - BUSTPOINT	74	8.72	.74	7.49 - 9.94	8.96
CERVICALE-BUTTOCK	78	22.35	1.05	20.61 - 24.08	22.82
NECK TO BUSTPOINT	49	9.39	.65	8.32 - 10.47	9.75
SLEEVE INSEAM	51	17.61	.73	16.40 - 18.82	18.03
SLEEVE OUTSEAM	52	20.93	.79	19.63 - 22.23	21.47
SHOULDER TO ELBOW	13	13.03	.44	12.30 - 13.76	13.38
WAIST BACK	47	15.91	.91	14.41 - 17.41	16.24
WAIST FRONT	48	14.08	.93	12.54 - 15.61	14.43

\* UNITS ARE INCHES OR POUNDS

TABLE 29 (cont'd)

12 SIZE UPPER BODY  
SMALL REGULAR

	VAR NO	MID-SIZE SZ-SD VALUE		RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	13.99	.63	12.94 - 15.04	14.50
BICEPS CIRC, FLXD	33	9.88	.66	8.79 - 10.96	10.28
BUST CIRCUMFERENCE	27	32.08	.87	30.97 - 33.43	33.50
BUST-WAIST, CIRC.	79	6.36	1.63	3.67 - 9.06	6.57
CHEST CIRC AT SCYE	26	31.74	1.12	29.90 - 33.58	32.88
CHEST C BELOW BUST	28	27.62	1.13	25.75 - 29.48	28.69
ELBOW CIRC FLXD	34	9.89	.52	9.03 - 10.75	10.18
FOREARM CIRC, FLXD	35	9.28	.47	8.51 - 10.05	9.56
HIP CIRCUMFERENCE	38	35.69	1.74	32.81 - 38.56	37.03
NECK CIRCUMFERENCE	24	12.36	.58	11.53 - 13.19	12.63
SHOULDER CIRCUMFER	25	37.62	1.30	35.48 - 39.77	38.80
VERTICAL TRUNK CIR	31	58.66	1.81	55.67 - 61.65	60.39
WAIST CIRCUMFERENC	29	25.64	1.78	22.69 - 28.58	26.93
WRIST CIRCUMFERENC	36	5.65	.22	5.29 - 6.01	5.77
<b>***ARCS***</b>					
BACK ARC, BUST	44	15.38	.74	14.16 - 16.61	16.02
BACK ARC, HIP	46	17.71	1.15	15.82 - 19.61	18.37
BACK ARC, WAIST	45	12.75	.92	11.23 - 14.28	13.39
INTERSCYE BACK	42	14.43	.81	13.09 - 15.77	14.76
INTERSCYE FRONT	43	12.69	.57	11.74 - 13.63	12.98
SHOULDER LENGTH	41	5.85	.39	5.21 - 6.50	5.95
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	8.16	.46	7.40 - 8.92	8.61
CHEST BREADTH	20	18.45	.42	9.75 - 11.14	10.84
HIP BREADTH	22	13.31	.76	12.05 - 14.56	13.76
SHOULDER BREADTH	23	15.82	.57	14.87 - 16.77	16.30
WAIST BREADTH	21	9.31	.70	8.17 - 10.46	9.76
WAIST DEPTH	19	6.51	.62	5.48 - 7.53	6.87



TABLE 30

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL LONG

THE RANGE FOR BUST CIRCUMFERENCE 30.50 - 33.49  
 THE RANGE FOR STATURE 65.00 - 67.99

N = 79      TARIFF PERCENTAGE = 6.61%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	123.59	10.27	106.64 - 140.54	135.72
***HEIGHTS***					
AXILLA HEIGHT	4	58.45	.98	48.96 - 51.93	51.70
BUSTPOINT HEIGHT	5	48.63	1.04	46.90 - 50.35	49.78
BUTTOCK HEIGHT	8	34.31	1.15	32.41 - 36.20	35.22
CERVICAL HEIGHT	71	57.50	.91	56.08 - 59.00	58.89
CROTCH HEIGHT	7	31.55	1.01	29.89 - 33.22	32.38
SHOULDER HEIGHT	3	54.45	.95	52.88 - 56.02	55.86
STATURE	2	66.58	.87	65.87 - 67.93	68.80
WAIST HEIGHT	6	41.71	1.10	39.90 - 43.53	42.74
***LENGTHS***					
ACROMION - AXILLA	72	4.81	.35	3.43 - 4.59	4.16
AXILLA TO WAIST	58	9.33	.95	7.76 - 10.98	9.50
CERVICAL-ACROMION	73	3.85	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	8.87	.74	7.65 - 10.10	9.11
CERVICAL-BUTTOCK	78	23.19	1.05	21.46 - 24.93	23.67
NECK TO BUSTPOINT	49	9.52	.65	8.45 - 10.60	9.88
SLEEVE INSEAM	51	18.52	.73	17.31 - 19.73	18.94
SLEEVE OUTSEAM	52	21.99	.79	20.69 - 23.29	22.53
SHOULDER TO ELBOW	13	13.67	.44	12.94 - 14.40	14.01
WAIST BACK	47	16.53	.91	15.84 - 18.03	16.87
WAIST FRONT	48	14.44	.93	12.91 - 15.98	14.79

\* UNITS ARE INCHES OR POUNDS

TABLE 30 (cont'd)

12 SIZE UPPER BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.21	.63	13.17 - 15.26	14.73
BICEPS CIRC, FLXD	33	9.92	.66	8.83 - 11.00	10.32
BUST CIRCUMFERENCE	27	32.00	.87	30.57 - 33.43	33.50
BUST-WAIST, CIRC.	79	6.30	1.63	3.61 - 9.00	6.51
CHEST CIRC AT SCYE	26	31.93	1.12	30.09 - 33.77	33.06
CHEST C BELOW BUST	28	27.79	1.13	25.92 - 29.65	28.86
ELBOW CIRC FLXD	34	10.17	.52	9.31 - 11.02	10.46
FOREARM CIRC, FLXD	35	9.42	.47	8.65 - 10.19	9.70
HIP CIRCUMFERENCE	30	36.44	1.74	33.57 - 39.32	37.78
NECK CIRCUMFERCNC	24	12.53	.50	11.70 - 13.36	12.81
SHOULDER CIRCUMFER	25	37.98	1.30	35.83 - 40.12	39.15
VERTICAL TRUNK CIR	31	60.46	1.81	57.47 - 63.44	62.19
WAIST CIRCUMFERENC	29	25.70	1.78	22.75 - 28.64	26.99
WRIST CIRCUMFERENC	36	5.77	.22	5.40 - 6.13	5.89
***ARCS***					
BACK ARC, BUST	44	15.40	.74	14.18 - 16.63	16.04
BACK ARC, HIP	46	18.02	1.15	16.13 - 19.92	18.68
BACK ARC, WAIST	45	12.78	.92	11.26 - 14.30	13.41
INTERSCYE BACK	42	14.62	.81	13.28 - 15.96	14.95
INTERSCYE FRONT	43	12.91	.57	11.97 - 13.86	13.20
SHOULDER LENGTH	41	6.83	.39	5.39 - 6.68	6.13
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.11	.46	7.35 - 8.87	8.56
CHEST BREADTH	20	10.50	.42	9.81 - 11.20	10.90
HIP BREADTH	22	13.61	.76	12.35 - 14.87	14.07
SHOULDER BREADTH	23	16.02	.57	15.07 - 16.97	16.50
WAIST BREADTH	21	9.40	.70	8.25 - 10.55	9.85
WAIST DEPTH	19	6.45	.62	5.43 - 7.47	6.81

TABLE 31

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM SHORT

THE RANGE FOR BUST CIRCUMFERENCE 33.50 - 36.49  
 THE RANGE FOR STATURE 60.00 - 62.99

N = 155      TARIFF PERCENTAGE = 12.96%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	126.59	10.27	109.64 - 143.54	138.72
***HEIGHTS***					
AXILLA HEIGHT	4	46.33	.90	44.84 - 47.81	47.58
BUSTPOINT HEIGHT	5	44.38	1.04	42.66 - 46.10	45.54
BUTTOCK HEIGHT	8	31.43	1.15	29.54 - 33.32	32.35
CERVICALE HEIGHT	71	53.32	.91	51.82 - 54.82	54.71
CROTCH HEIGHT	7	28.49	1.81	26.83 - 38.16	29.31
SHOULDER HEIGHT	3	50.24	.95	48.67 - 51.81	51.64
STATURE	2	61.50	.87	60.07 - 62.93	63.00
WAIST HEIGHT	6	37.99	1.10	36.17 - 39.80	39.02
***LENGTHS***					
ACROMION - AXILLA	72	3.91	.35	3.33 - 4.49	4.06
AXILLA TO WAIST	50	8.81	.95	7.24 - 10.38	8.98
CERVICALE-ACROMION	73	3.88	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	8.94	.74	7.71 - 10.16	9.17
CERVICALE-BUTTOCK	78	21.88	1.05	20.15 - 23.62	22.36
NECK TO BUSTPOINT	49	9.89	.65	8.82 - 10.97	10.25
SLEEVE INSEAM	51	16.92	.73	15.71 - 18.13	17.34
SLEEVE OUTSEAM	52	20.24	.79	18.94 - 21.54	20.78
SHOULDER TO ELBOW	13	12.65	.44	11.92 - 13.39	13.00
WAIST BACK	47	15.53	.91	14.84 - 17.83	15.86
WAIST FRONT	48	14.17	.93	12.63 - 15.71	14.52

\* UNITS ARE INCHES OR POUNDS

TABLE 31 (cont'd)

12 SIZE UPPER BODY  
MEDIUM SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	14.64	.63	13.60 - 15.69	15.16
BICEPS CIRC, FLXD	33	10.61	.66	9.53 - 11.70	11.01
BUST CIRCUMFERENCE	27	35.00	.87	33.57 - 36.43	36.50
BUST-WAIST, CIRC.	79	6.87	1.63	4.18 - 9.57	7.08
CHEST CIRC AT SCYE	26	33.70	1.12	31.86 - 35.54	34.84
CHEST C BELOW BUST	28	29.48	1.13	27.62 - 31.35	30.56
ELBOW CIRC FLXD	34	10.01	.52	9.15 - 10.87	10.30
FOREARM CIRC, FLXD	35	9.61	.47	8.85 - 10.38	9.89
HIP CIRCUMFERENCE	30	37.11	1.74	34.23 - 39.98	38.45
NECK CIRCUMFERENCE	24	12.62	.50	11.79 - 13.45	12.89
SHOULDER CIRCUMFER	25	39.39	1.30	37.24 - 41.53	40.56
VERTICAL TRUNK CIR	31	59.12	1.81	56.14 - 62.11	60.86
WAIST CIRCUMFERENC	29	28.13	1.78	25.18 - 31.07	29.42
WRIST CIRCUMFERENC	36	5.70	.22	5.33 - 6.06	5.82
<b>***ARCS***</b>					
BACK ARC, BUST	44	16.62	.74	15.39 - 17.84	17.25
BACK ARC, HIP	46	18.52	1.15	16.62 - 20.41	19.18
BACK ARC, WAIST	45	13.99	.92	12.47 - 15.51	14.63
INTERSCYE BACK	42	14.78	.81	13.44 - 16.12	15.11
INTERSCYE FRONT	43	12.89	.57	11.94 - 13.84	13.18
SHOULDER LENGTH	41	5.75	.39	5.10 - 6.39	5.84
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	9.16	.46	8.40 - 9.92	9.61
CHEST BREADTH	20	11.13	.42	10.44 - 11.83	11.53
HIP BREADTH	22	13.70	.76	12.45 - 14.96	14.16
SHOULDER BREADTH	23	16.44	.57	15.50 - 17.39	16.92
WAIST BREADTH	21	10.07	.70	8.92 - 11.21	10.52
WAIST DEPTH	19	7.32	.62	6.30 - 8.34	7.68

TABLE 32

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 33.50 - 36.49  
 THE RANGE FOR STATURE 63.00 - 65.99

N = 286      TARIFF PERCENTAGE = 23.91%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	134.56	10.27	117.61 - 151.51	146.69
***HEIGHTS***					
AXILLA HEIGHT	4	48.81	.90	47.33 - 50.30	50.06
BUSTPOINT HEIGHT	5	46.84	1.04	45.12 - 48.56	48.00
BUTTOCK HEIGHT	8	33.20	1.15	31.31 - 35.09	34.12
CERVICALE HEIGHT	71	55.93	.91	54.43 - 57.43	57.33
CROTCH HEIGHT	7	30.26	1.01	28.59 - 31.92	31.08
SHOULDER HEIGHT	3	52.87	.95	51.30 - 54.44	54.28
STATURE	2	64.50	.87	63.07 - 65.93	66.00
WAIST HEIGHT	6	40.16	1.10	38.34 - 41.97	41.19
***LENGTHS***					
ACROMION - AXILLA	72	4.06	.35	3.48 - 4.64	4.21
AXILLA TO WAIST	50	9.13	.95	7.56 - 10.70	9.30
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.05
CERV. - BUSTPOINT	74	9.89	.74	7.86 - 10.32	9.33
CERVICALE-BUTTOCK	78	22.73	1.05	21.00 - 24.47	23.21
NECK TO BUSTPOINT	49	10.02	.65	8.95 - 11.10	10.38
SLEEVE INSEAM	51	17.84	.73	16.63 - 19.04	18.26
SLEEVE OUTSEAM	52	21.30	.79	20.00 - 22.61	21.84
SHOULDER TO ELBOW	13	13.29	.44	12.56 - 14.03	13.64
WAIST BACK	47	16.16	.91	14.66 - 17.66	16.49
WAIST FRONT	48	14.53	.93	13.00 - 16.07	14.89

\* UNITS ARE INCHES OR POUNDS

TABLE 32 (cont'd)

12 SIZE UPPER BODY  
MEDIUM REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.87	.63	13.82 - 15.91	15.38
BICEPS CIRC, FLXD	33	10.65	.66	9.57 - 11.74	11.05
BUST CIRCUMFERENCE	27	35.00	.87	33.57 - 36.43	36.50
BUST-WAIST, CIRC.	79	6.81	1.63	4.12 - 9.51	7.01
CHEST CIRC AT SCYE	26	33.89	1.12	32.05 - 35.73	35.02
CHEST C BELOW BUST	28	29.65	1.13	27.79 - 31.52	30.72
ELBOW CIRC FLXD	34	10.29	.52	9.43 - 11.14	10.58
FOREARM CIRC, FLXD	35	9.75	.47	8.98 - 10.52	10.03
HIP CIRCUMFERENCE	30	37.86	1.74	34.99 - 40.74	39.20
NECK CIRCUMFERENCE	24	12.79	.50	11.96 - 13.62	13.07
SHOULDER CIRCUMFER	25	39.74	1.30	37.59 - 41.89	40.92
VERTICAL TRUNK CIR	31	60.92	1.81	57.94 - 63.91	62.65
WAIST CIRCUMFERENC	29	28.19	1.78	25.25 - 31.13	29.49
WRIST CIRCUMFERENC	36	5.81	.22	5.45 - 6.18	5.94
***ARCS***					
BACK ARC, BUST	44	16.64	.74	15.41 - 17.86	17.27
BACK ARC, HIP	46	18.83	1.15	16.93 - 20.72	19.49
BACK ARC, WAIST	45	14.01	.92	12.49 - 15.53	14.65
INTERSCYE BACK	42	14.97	.81	13.63 - 16.31	15.30
INTERSCYE FRONT	43	13.12	.57	12.17 - 14.86	13.41
SHOULDER LENGTH	41	5.93	.39	5.28 - 6.57	6.02
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.10	.46	8.34 - 9.87	9.56
CHEST BREADTH	20	11.19	.42	10.50 - 11.89	11.58
HIP BREADTH	22	14.01	.76	12.75 - 15.27	14.47
SHOULDER BREADTH	23	16.64	.57	15.70 - 17.59	17.12
WAIST BREADTH	21	10.15	.70	9.00 - 11.30	10.60
WAIST DEPTH	19	7.26	.62	6.24 - 8.28	7.62

TABLE 33

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM LONG

THE RANGE FOR BUST CIRCUMFERENCE 33.50 - 36.49  
 THE RANGE FOR STATURE 66.00 - 68.99

N = 125      TARIFF PERCENTAGE = 10.45%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	142.53	10.27	125.58 - 159.48	154.66
***HEIGHTS***					
AXILLA HEIGHT	4	51.29	.90	49.81 - 52.78	52.55
BUSTPOINT HEIGHT	5	49.30	1.04	47.58 - 51.02	50.46
BUTTOCK HEIGHT	8	34.96	1.15	33.07 - 36.86	35.88
CERVICAL HEIGHT	71	58.55	.91	57.04 - 60.05	59.94
CROTCH HEIGHT	7	32.02	1.01	30.36 - 33.69	32.84
SHOULDER HEIGHT	3	55.50	.95	53.93 - 57.07	56.91
STATURE	2	67.50	.87	66.07 - 68.93	69.88
WAIST HEIGHT	6	42.33	1.10	40.51 - 44.14	43.36
***LENGTHS***					
ACROMION - AXILLA	72	4.21	.35	3.63 - 4.79	4.36
AXILLA TO WAIST	50	9.45	.95	7.88 - 11.02	9.63
CERVICAL-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.24	.74	8.02 - 10.47	9.48
CERVICAL-BUTTOCK	78	23.58	1.05	21.85 - 25.31	24.06
NECK TO BUSTPOINT	49	10.15	.65	9.07 - 11.23	10.51
SLEEVE INSEAM	51	18.75	.73	17.54 - 19.96	19.17
SLEEVE OUTSEAM	52	22.37	.79	21.06 - 23.67	22.91
SHOULDER TO ELBOW	13	13.93	.44	13.20 - 14.66	14.27
WAIST BACK	47	16.78	.91	15.28 - 18.28	17.11
WAIST FRONT	48	14.90	.93	13.36 - 16.44	15.25

\* UNITS ARE INCHES OR POUNDS

TABLE 33 (cont'd)

12 SIZE UPPER BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	15.09	.63	14.05 - 16.14	15.61
BICEPS CIRC, FLXD	33	10.69	.66	9.60 - 11.78	11.09
BUST CIRCUMFERENCE	27	35.00	.87	33.57 - 36.43	36.50
BUST-WAIST, CIRC.	79	6.75	1.63	4.86 - 9.45	6.95
CHEST CIRC AT SCYE	26	34.00	1.12	32.23 - 35.92	35.21
CHEST C BELOW BUST	28	29.82	1.13	27.96 - 31.69	30.89
ELBOW CIRC FLXD	34	10.56	.52	9.71 - 11.42	10.85
FOREARM CIRC, FLXD	35	9.88	.47	9.12 - 10.65	10.16
HIP CIRCUMFERENCE	30	38.62	1.74	35.74 - 41.49	39.96
NECK CIRCUMFERENCE	24	12.96	.50	12.13 - 13.80	13.24
SHOULDER CIRCUMFER	25	40.09	1.30	37.95 - 42.24	41.27
VERTICAL TRUNK CIR	31	62.72	1.81	59.73 - 65.71	64.45
WAIST CIRCUMFERENC	29	28.25	1.78	25.31 - 31.19	29.55
WRIST CIRCUMFERENC	36	5.93	.22	5.57 - 6.29	6.85
<b>***ARCS***</b>					
BACK ARC, BUST	44	16.66	.74	15.43 - 17.88	17.29
BACK ARC, HIP	46	19.14	1.15	17.24 - 21.03	19.80
BACK ARC, WAIST	45	14.04	.92	12.51 - 15.56	14.67
INTERSCYE BACK	42	15.16	.81	13.82 - 16.50	15.49
INTERSCYE FRONT	43	13.34	.57	12.40 - 14.29	13.63
SHOULDER LENGTH	41	6.11	.39	5.46 - 6.75	6.20
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	9.05	.46	8.29 - 9.81	9.58
CHEST BREADTH	20	11.25	.42	10.55 - 11.95	11.64
HIP BREADTH	22	14.32	.76	13.06 - 15.58	14.78
SHOULDER BREADTH	23	16.84	.57	15.90 - 17.79	17.32
WAIST BREADTH	21	10.24	.70	9.09 - 11.39	10.69
WAIST DEPTH	19	7.21	.62	6.18 - 8.23	7.56



TABLE 34

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE SHORT

THE RANGE FOR BUST CIRCUMFERENCE 36.50 - 39.49  
 THE RANGE FOR STATURE 61.00 - 63.99

N = 84      TARIFF PERCENTAGE = 7.02%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	145.53	10.27	128.58 - 162.48	157.66
***HEIGHTS***					
AXILLA HEIGHT	4	47.18	.90	45.69 - 48.66	48.43
BUSTPOINT HEIGHT	5	45.06	1.04	43.33 - 46.78	46.21
BUTTOCK HEIGHT	8	32.09	1.15	30.20 - 33.98	33.01
CERVICALE HEIGHT	71	54.36	.91	52.86 - 55.87	55.76
CROTCH HEIGHT	7	28.96	1.01	27.29 - 30.63	29.78
SHOULDER HEIGHT	3	51.29	.95	49.72 - 52.86	52.70
STATURE	2	62.50	.87	61.87 - 63.93	64.00
WAIST HEIGHT	6	38.60	1.10	36.79 - 40.42	39.63
***LENGTHS***					
ACROMION - AXILLA	72	4.12	.35	3.54 - 4.70	4.27
AXILLA TO WAIST	50	6.94	.95	7.37 - 10.51	9.11
CERVICALE-ACROMION	73	3.07	.30	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	9.31	.74	8.88 - 10.53	9.55
CERVICALE-BUTTOCK	78	22.27	1.05	20.54 - 24.08	22.75
NECK TO BUSTPOINT	49	10.52	.65	9.45 - 11.68	10.88
SLEEVE INSEAM	51	17.15	.73	15.94 - 18.36	17.57
SLEEVE OUTSEAM	52	20.61	.79	19.31 - 21.92	21.15
SHOULDER TO ELBOW	13	12.91	.44	12.18 - 13.65	13.26
WAIST BACK	47	15.78	.91	14.28 - 17.28	16.11
WAIST FRONT	48	14.63	.93	13.09 - 16.16	14.98

\* UNITS ARE INCHES OR POUNDS

TABLE 34 (cont'd)

12 SIZE UPPER BODY  
LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	15.52	.63	14.48 - 16.57	16.04
BICEPS CIRC, FLXD	33	11.39	.66	10.30 - 12.48	11.79
BUST CIRCUMFERENCE	27	38.00	.67	36.57 - 39.43	39.50
BUST-WAIST, CIRC.	79	7.32	1.63	4.62 - 10.01	7.52
CHEST CIRC AT SCYE	26	35.85	1.12	34.00 - 37.69	36.98
CHEST C BELOW BUST	28	31.52	1.13	29.65 - 33.38	32.59
ELBOW CIRC FLXD	34	10.41	.52	9.55 - 11.26	10.70
FOREARM CIRC, FLXD	35	10.00	.47	9.31 - 10.85	10.36
HIP CIRCUMFERENCE	30	39.28	1.74	36.41 - 42.16	40.62
NECK CIRCUMFERENCE	24	13.05	.50	12.22 - 13.88	13.33
SHOULDER CIRCUMFER	25	41.50	1.30	39.36 - 43.65	42.68
VERTICAL TRUNK CIR	31	61.39	1.81	58.40 - 64.37	63.12
WAIST CIRCUMFERENC	29	30.68	1.78	27.74 - 33.62	31.98
WRIST CIRCUMFERENC	36	5.86	.22	5.50 - 6.23	5.98
<b>***ARCS***</b>					
BACK ARC, BUST	44	17.87	.74	16.65 - 19.10	18.51
BACK ARC, HIP	46	19.64	1.15	17.74 - 21.53	20.30
BACK ARC, WAIST	45	15.25	.92	13.73 - 16.77	15.89
INTERSCYE BACK	42	15.31	.81	13.97 - 16.65	15.64
INTERSCYE FRONT	43	13.32	.57	12.37 - 14.27	13.61
SHOULDER LENGTH	41	5.82	.39	5.18 - 6.47	5.92
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	10.10	.46	9.34 - 10.86	10.55
CHEST BREADTH	20	11.88	.42	11.18 - 12.58	12.27
HIP BREADTH	22	14.41	.76	13.15 - 15.67	14.87
SHOULDER BREADTH	23	17.27	.57	16.32 - 18.21	17.74
WAIST BREADTH	21	10.91	.70	9.76 - 12.05	11.35
WAIST DEPTH	19	8.08	.62	7.05 - 9.10	8.43

TABLE 35

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 36.50 - 39.49  
 THE RANGE FOR STATURE 64.00 - 66.99

N = 97      TARIFF PERCENTAGE = 8.11%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	153.50	10.27	136.55 - 170.45	165.63
***HEIGHTS***					
AXILLA HEIGHT	4	49.66	.90	48.18 - 51.14	50.91
BUSTPOINT HEIGHT	5	47.52	1.04	45.79 - 49.24	48.67
BUTTOCK HEIGHT	8	33.86	1.15	31.97 - 35.75	34.78
CERVICALE HEIGHT	71	56.98	.91	55.48 - 58.48	58.37
CROTCH HEIGHT	7	30.72	1.01	29.06 - 32.39	31.54
SHOULDER HEIGHT	3	53.93	.95	52.36 - 55.50	55.33
STATURE	2	65.50	.87	64.07 - 66.93	67.00
WAIST HEIGHT	6	40.77	1.10	38.96 - 42.59	41.81
***LENGTHS***					
ACROMION - AXILLA	72	4.27	.35	3.69 - 4.85	4.42
AXILLA TO WAIST	50	9.26	.95	7.69 - 10.83	9.43
CERVICALE-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.46	.74	8.24 - 10.69	9.70
CERVICALE-BUTTOCK	78	23.12	1.85	21.39 - 24.85	23.60
NECK TO BUSTPOINT	49	10.65	.65	9.57 - 11.73	11.01
SLEEVE INSEAM	51	18.06	.73	16.86 - 19.27	18.48
SLEEVE OUTSEAM	52	21.68	.79	20.37 - 22.98	22.22
SHOULDER TO ELBOW	13	13.55	.44	12.82 - 14.29	13.90
WAIST BACK	47	16.40	.91	14.91 - 17.90	16.74
WAIST FRONT	48	14.99	.93	13.46 - 16.53	15.34

\* UNITS ARE INCHES OR POUNDS

TABLE 35 (cont'd)

12 SIZE UPPER BODY  
LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.75	.63	14.70 - 16.79	16.26
BICEPS CIRC, FLXD	33	11.43	.66	10.34 - 12.52	11.83
BUST CIRCUMFERENCE	27	38.00	.87	36.57 - 39.43	39.50
BUST-WAIST, CIRC.	79	7.26	1.63	4.56 - 9.95	7.46
CHEST CIRC AT SCYE	26	36.03	1.12	34.19 - 37.88	37.17
CHEST C BELOW BUST	28	31.68	1.13	29.82 - 33.55	32.76
ELBOW CIRC FLXD	34	10.68	.52	9.83 - 11.54	10.97
FOREARM CIRC, FLXD	35	10.22	.47	9.45 - 10.99	10.50
HIP CIRCUMFERENCE	30	40.04	1.74	37.16 - 42.91	41.38
NECK CIRCUMFERENCE	24	13.23	.50	12.39 - 14.06	13.50
SHOULDER CIRCUMFER	25	41.86	1.30	39.71 - 44.00	43.03
VERTICAL TRUNK CIR	31	63.18	1.81	60.20 - 66.17	64.92
WAIST CIRCUMFERENC	29	30.74	1.78	27.80 - 33.68	32.04
WRIST CIRCUMFERENC	36	5.98	.22	5.62 - 6.34	6.10
***ARCS***					
BACK ARC, BUST	44	17.89	.74	16.67 - 19.12	18.53
BACK ARC, HIP	46	19.95	1.15	18.05 - 21.84	20.61
BACK ARC, WAIST	45	15.27	.92	13.75 - 16.79	15.91
INTERSCYE BACK	42	15.50	.81	14.16 - 16.84	15.83
INTERSCYE FRONT	43	13.55	.57	12.60 - 14.49	13.84
SHOULDER LENGTH	41	6.00	.39	5.36 - 6.65	6.10
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.04	.46	9.28 - 10.81	10.50
CHEST BREADTH	20	11.94	.42	11.24 - 12.64	12.33
HIP BREADTH	22	14.72	.76	13.46 - 15.98	15.17
SHOULDER BREADTH	23	17.47	.57	16.52 - 18.41	17.94
WAIST BREADTH	21	10.99	.70	9.84 - 12.14	11.44
WAIST DEPTH	19	8.02	.62	7.00 - 9.04	8.38

TABLE 36

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 36.50 - 39.49  
 THE RANGE FOR STATURE 67.00 - 69.99

N = 52      TARIFF PERCENTAGE = 4.35%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	161.47	10.27	144.52 - 178.42	173.60
***HEIGHTS***					
AXILLA HEIGHT	4	52.14	.90	50.66 - 53.63	53.40
BUSTPOINT HEIGHT	5	49.98	1.04	48.25 - 51.70	51.13
BUTTOCK HEIGHT	8	35.62	1.15	33.73 - 37.51	36.54
CERVICALE HEIGHT	71	59.59	.91	58.09 - 61.09	60.99
CROTCH HEIGHT	7	32.49	1.01	30.82 - 34.15	33.31
SHOULDER HEIGHT	3	56.56	.95	54.99 - 58.13	57.96
STATURE	2	68.50	.87	67.07 - 69.93	70.00
WAIST HEIGHT	6	42.94	1.10	41.13 - 44.76	43.98
***LENGTHS***					
ACROMION - AXILLA	72	4.41	.35	3.83 - 4.99	4.57
AXILLA TO WAIST	50	9.58	.95	8.01 - 11.15	9.75
CERVICALE-ACROMION	73	3.04	.30	2.54 - 3.53	3.03
CERV. - BUSTPOINT	74	9.62	.74	8.39 - 10.84	9.86
CERVICALE-BUTTOCK	78	23.97	1.05	22.24 - 25.70	24.45
NECK TO BUSTPOINT	49	10.78	.65	9.70 - 11.85	11.14
SLEEVE INSEAM	51	18.98	.73	17.77 - 20.19	19.40
SLEEVE OUTSEAM	52	22.74	.79	21.44 - 24.04	23.28
SHOULDER TO ELBOW	13	14.19	.44	13.46 - 14.92	14.53
WAIST BACK	47	17.03	.91	15.53 - 18.53	17.35
WAIST FRONT	48	15.36	.93	13.82 - 16.89	15.71

\* UNITS ARE INCHES OR POUNDS

	VAF NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.97	.63	14.93 - 17.02	16.49
BICEPS CIRC, FLXD	33	11.47	.66	10.38 - 12.55	11.87
BUST CIRCUMFERENCE	27	38.00	.67	36.57 - 39.43	39.50
BUST-WAIST, CIRC.	79	7.20	1.63	4.50 - 9.89	7.40
CHEST CIRC AT SCYE	26	36.22	1.12	34.38 - 38.06	37.36
CHEST C BELOW BUST	28	31.85	1.13	29.99 - 33.72	32.93
ELBOW CIRC FLXD	34	10.96	.52	10.10 - 11.82	11.25
FOREARM CIRC, FLXD	35	10.35	.47	9.58 - 11.12	10.63
HIP CIRCUMFERENCE	30	40.79	1.74	37.92 - 43.67	42.13
NECK CIRCUMFERENCE	24	13.40	.50	12.57 - 14.23	13.57
SHOULDER CIRCUMFER	25	42.21	1.30	40.06 - 44.36	43.38
VERTICAL TRUNK CIR	31	64.98	1.81	62.00 - 67.97	66.71
WAIST CIRCUMFERENC	29	30.80	1.78	27.86 - 33.75	32.10
WRIST CIRCUMFERENC	36	6.10	.22	5.73 - 6.46	6.22
***ARCS***					
BACK ARC, BUST	44	17.91	.74	16.69 - 19.14	18.55
BACK ARC, HIP	46	20.25	1.15	18.36 - 22.15	20.92
BACK ARC, WAIST	45	15.29	.92	13.77 - 16.82	15.93
INTERSCYE BACK	42	15.69	.81	14.35 - 17.03	16.02
INTERSCYE FRONT	43	13.77	.57	12.83 - 14.72	14.06
SHOULDER LENGTH	41	6.18	.39	5.54 - 6.82	6.28
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.99	.46	9.23 - 10.75	10.44
CHEST BREADTH	20	12.00	.42	11.30 - 12.69	12.39
HIP BREADTH	22	15.03	.76	13.77 - 16.28	15.48
SHOULDER BREADTH	23	17.66	.57	16.72 - 18.61	18.14
WAIST BREADTH	21	11.08	.70	9.93 - 12.23	11.53
WAIST DEPTH	19	7.96	.62	6.94 - 8.98	8.32

TABLE 37

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE SHORT

THE RANGE FOR BUST CIRCUMFERENCE 39.50 - 42.49  
 THE RANGE FOR STATURE 62.00 - 64.99

N = 12 TARIFF PERCENTAGE = 1.00%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	164.47	10.27	147.52 - 181.41	176.60
***HEIGHTS***					
AXILLA HEIGHT	4	48.83	.90	46.54 - 49.51	49.28
BUSTPOINT HEIGHT	5	45.73	1.04	44.01 - 47.45	46.89
BUTTOCK HEIGHT	8	32.75	1.15	30.86 - 34.64	33.67
CERVICAL HEIGHT	71	55.41	.91	53.91 - 56.91	56.81
CROTCH HEIGHT	7	29.43	1.01	27.76 - 31.89	30.25
SHOULDER HEIGHT	3	52.35	.95	50.78 - 53.92	53.75
STATURE	2	63.50	.87	62.07 - 64.93	65.00
WAIST HEIGHT	6	39.22	1.10	37.40 - 41.83	40.25
***LENGTHS***					
ACROMION - AXILLA	72	4.32	.35	3.74 - 4.90	4.47
AXILLA TO WAIST	50	9.06	.95	7.49 - 10.63	9.23
CERVICAL-ACROMION	73	3.06	.30	2.57 - 3.56	3.06
CERV. - BUSTPOINT	74	9.68	.74	8.46 - 10.91	9.92
CERVICAL-BUTTOCK	78	22.66	1.05	20.93 - 24.39	23.14
NECK TO BUSTPOINT	49	11.15	.65	10.08 - 12.23	11.51
SLEEVE INSEAM	51	17.38	.73	16.17 - 18.59	17.90
SLEEVE OUTSEAM	52	20.99	.79	19.69 - 22.29	21.53
SHOULDER TO ELBOW	13	13.17	.44	12.44 - 13.91	13.52
WAIST BACK	47	16.03	.91	14.53 - 17.52	16.36
WAIST FRONT	48	15.88	.93	13.55 - 16.62	15.43

\* UNITS ARE INCHES OR POUNDS

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.40	.63	15.36 - 17.45	16.92
BICEPS CIRC, FLXD	33	12.16	.66	11.08 - 13.25	12.57
BUST CIRCUMFERENCE	27	41.00	.87	39.57 - 42.43	42.50
BUST-WAIST, CIRC.	79	7.77	1.63	5.07 - 18.46	7.97
CHEST CIRC AT SCYE	26	37.99	1.12	36.15 - 39.84	39.13
CHEST C BELOW BUST	28	33.55	1.13	31.68 - 35.41	34.62
ELBOW CIRC FLXD	34	10.80	.52	9.95 - 11.66	11.09
FOREARM CIRC, FLXD	35	10.55	.47	9.78 - 11.32	10.83
HIP CIRCUMFERENCE	38	41.46	1.74	38.58 - 44.33	42.80
NECK CIRCUMFERENCE	24	13.49	.50	12.65 - 14.32	13.76
SHOULDER CIRCUMFER	25	43.62	1.30	41.47 - 45.77	44.80
VERTICAL TRUNK CIR	31	63.65	1.81	60.66 - 66.64	65.38
WAIST CIRCUMFERENC	29	33.23	1.78	30.29 - 36.18	34.53
WRIST CIRCUMFERENC	36	6.03	.22	5.66 - 6.39	6.15
***ARCS***					
BACK ARC, BUST	44	19.13	.74	17.91 - 20.36	19.77
BACK ARC, HIP	46	20.75	1.15	18.86 - 22.65	21.41
BACK ARC, WAIST	45	16.51	.92	14.99 - 18.03	17.14
INTERSCYE BACK	42	15.85	.81	14.51 - 17.19	16.18
INTERSCYE FRONT	43	13.75	.57	12.80 - 14.70	14.04
SHOULDER LENGTH	41	5.90	.39	5.25 - 6.54	5.99
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	11.04	.46	10.28 - 11.80	11.49
CHEST BREADTH	20	12.63	.42	11.93 - 13.32	13.02
HIP BREADTH	22	15.12	.76	13.86 - 16.38	15.57
SHOULDER BREADTH	23	18.09	.57	17.14 - 19.04	18.57
WAIST BREADTH	21	11.75	.70	10.60 - 12.89	12.19
WAIST DEPTH	19	8.83	.62	7.81 - 9.85	9.19



TABLE 38

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 39.50 - 42.49  
 THE RANGE FOR STATURE 65.00 - 67.99

N = 16      TARIFF PERCENTAGE = 1.34%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	172.44	10.27	155.49 - 189.39	184.57
***HEIGHTS***					
AXILLA HEIGHT	4	58.51	.90	49.02 - 51.99	51.76
BUSTPOINT HEIGHT	5	48.19	1.04	46.47 - 49.91	49.35
BUTTOCK HEIGHT	8	34.52	1.15	32.63 - 36.41	35.44
CERVICAL HEIGHT	71	58.03	.91	56.52 - 59.53	59.42
CROTCH HEIGHT	7	31.19	1.01	29.52 - 32.86	32.01
SHOULDER HEIGHT	3	54.98	.95	53.41 - 56.55	56.38
STATURE	2	66.50	.87	65.07 - 67.93	68.00
WAIST HEIGHT	6	41.39	1.10	39.57 - 43.20	42.42
***LENGTHS***					
ACROMION - AXILLA	72	4.47	.35	3.89 - 5.05	4.62
AXILLA TO WAIST	50	9.39	.95	7.82 - 10.96	9.56
CERVICAL-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.84	.74	8.61 - 11.06	10.07
CERVICAL-BUTTOCK	78	23.51	1.05	21.78 - 25.24	23.98
NECK TO BUSTPOINT	49	11.28	.65	10.20 - 12.36	11.64
SLEEVE INSEAM	51	18.29	.73	17.08 - 19.50	18.71
SLEEVE OUTSEAM	52	22.05	.79	20.75 - 23.35	22.59
SHOULDER TO ELBOW	13	13.81	.44	13.08 - 14.55	14.16
WAIST BACK	47	16.65	.91	15.15 - 18.15	16.98
WAIST FRONT	48	15.45	.93	13.91 - 16.99	15.80

\* UNITS ARE INCHES OR POUNDS

TABLE 38 (cont'd)

12 SIZE UPPER BODY  
X-LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.63	.63	15.58 - 17.67	17.14
SICEPS CIRC, FLXD	33	12.20	.66	11.12 - 13.29	12.60
BUST CIRCUMFERENCE	27	41.00	.87	39.57 - 42.43	42.50
BUST-WAIST, CIRC.	79	7.71	1.63	5.01 - 10.40	7.91
CHEST CIRC AT SCYE	26	38.18	1.12	36.34 - 40.02	39.32
CHEST C BELOW BUST	28	33.72	1.13	31.85 - 35.58	34.79
ELBOW CIRC FLXD	34	11.08	.52	10.22 - 11.94	11.37
FOREARM CIRC, FLXD	35	10.68	.47	9.91 - 11.45	10.96
HIP CIRCUMFERENCE	30	42.21	1.74	39.34 - 45.09	43.55
NECK CIRCUMFERCNC	24	13.66	.50	12.83 - 14.49	13.93
SHOULDER CIRCUMFER	25	43.97	1.30	41.83 - 46.12	45.15
VERTICAL TRUNK CIR	31	65.45	1.81	62.46 - 68.43	67.18
WAIST CIRCUMFERENC	29	33.29	1.78	30.35 - 36.24	34.59
WRIST CIRCUMFERENC	36	6.14	.22	5.78 - 6.51	6.26
***ARCS***					
BACK ARC, BUST	44	19.15	.74	17.93 - 20.38	19.79
BACK ARC, HIP	46	21.06	1.15	19.17 - 22.96	21.72
BACK ARC, WAIST	45	16.53	.92	15.01 - 18.05	17.17
INTERSCYE BACK	42	16.04	.81	14.70 - 17.38	16.37
INTERSCYE FRONT	43	13.98	.57	13.03 - 14.92	14.27
SHOULDER LENGTH	41	6.08	.39	5.43 - 6.72	6.17
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.99	.46	10.22 - 11.75	11.44
CHEST BREADTH	20	12.69	.42	11.99 - 13.38	13.08
HIP BREADTH	22	15.42	.76	14.17 - 16.68	15.68
SHOULDER BREADTH	23	18.29	.57	17.34 - 19.23	18.77
WAIST BREADTH	21	11.83	.70	10.68 - 12.98	12.28
WAIST DEPTH	19	8.77	.62	7.75 - 9.80	9.13

TABLE 39

## 12 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 39.50 - 42.49  
 THE RANGE FOR STATURE 68.00 - 70.99

N = 2 TARIFF PERCENTAGE = .17%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	180.41	10.27	163.46 - 197.36	192.54
***HEIGHTS***					
AXILLA HEIGHT	4	52.99	.90	51.51 - 54.48	54.24
BUSTPOINT HEIGHT	5	50.65	1.04	48.93 - 52.37	51.81
BUTTOCK HEIGHT	8	36.28	1.15	34.39 - 38.17	37.20
CERVICALE HEIGHT	71	60.64	.91	59.14 - 62.14	62.04
CROTCH HEIGHT	7	32.95	1.01	31.29 - 34.62	33.78
SHOULDER HEIGHT	3	57.61	.95	56.04 - 59.18	59.01
STATURE	2	69.50	.87	68.07 - 70.93	71.00
WAIST HEIGHT	6	43.56	1.10	41.75 - 45.38	44.59
***LENGTHS***					
ACROMION - AXILLA	72	4.62	.35	4.04 - 5.20	4.77
AXILLA TO WAIST	50	9.71	.95	8.14 - 11.28	9.88
CERVICALE-ACROMION	73	3.03	.30	2.54 - 3.52	3.02
CERV. - BUSTPOINT	74	9.99	.74	8.76 - 11.22	10.23
CERVICALE-BUTTOCK	78	24.36	1.05	22.62 - 26.09	24.83
NECK TO BUSTPOINT	49	11.41	.65	10.33 - 12.48	11.76
SLEEVE INSEAM	51	19.21	.73	18.00 - 20.42	19.63
SLEEVE OUTSEAM	52	23.11	.79	21.81 - 24.41	23.65
SHOULDER TO ELBOW	13	14.45	.44	13.72 - 15.18	14.79
WAIST BACK	47	17.27	.91	15.78 - 18.77	17.61
WAIST FRONT	48	15.82	.93	14.28 - 17.35	16.17

\* UNITS ARE INCHES OR POUNDS

TABLE 39 (cont'd)

12 SIZE UPPER BODY  
X-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.85	.63	15.81 - 17.90	17.37
BICEPS CIRC, FLXD	33	12.24	.66	11.16 - 13.33	12.64
BUST CIRCUMFERENCE	27	41.00	.87	39.57 - 42.43	42.50
BUST-WAIST, CIRC.	79	7.65	1.63	4.95 - 10.34	7.85
CHEST CIRC AT SCYE	26	38.37	1.12	36.53 - 40.21	39.50
CHEST C BELOW BUST	28	33.89	1.13	32.02 - 35.75	34.96
ELBOW CIRC FLXD	34	11.36	.52	10.50 - 12.21	11.65
FOREARM CIRC, FLXD	35	10.82	.47	10.05 - 11.59	11.10
HIP CIRCUMFERENCE	30	42.97	1.74	40.09 - 45.84	44.31
NECK CIRCUMFERENCE	24	13.83	.50	13.00 - 14.66	14.10
SHOULDER CIRCUMFER	25	44.33	1.30	42.18 - 46.47	45.50
VERTICAL TRUNK CIR	31	67.25	1.81	64.26 - 70.23	68.98
WAIST CIRCUMFERENC	29	33.35	1.78	30.41 - 36.30	34.65
WRIST CIRCUMFERENC	36	6.26	.22	5.90 - 6.62	6.38
***ARCS***					
BACK ARC, BUST	44	19.17	.74	17.95 - 20.40	19.81
BACK ARC, HIP	46	21.37	1.15	19.48 - 23.27	22.03
BACK ARC, WAIST	45	16.55	.92	15.03 - 18.07	17.19
INTERSCYE BACK	42	16.22	.81	14.88 - 17.56	16.55
INTERSCYE FRONT	43	14.20	.57	13.26 - 15.15	14.50
SHOULDER LENGTH	41	6.25	.39	5.61 - 6.90	6.35
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.93	.46	10.17 - 11.69	11.38
CHEST BREADTH	20	12.74	.42	12.05 - 13.44	13.14
HIP BREADTH	22	15.73	.76	14.47 - 16.99	16.19
SHOULDER BREADTH	23	18.49	.57	17.54 - 19.43	18.97
WAIST BREADTH	21	11.92	.70	10.77 - 13.06	12.37
WAIST DEPTH	19	8.72	.62	7.70 - 9.74	9.08

TABLE 10  
13 SIZE PROGRAM FOR THE UPPER BODY\*

X-SMALL SHORT

THE RANGE FOR BUST CIRCUMFERENCE 30.00 - 31.99  
THE RANGE FOR STATURE 58.00 - 61.99

N = 55      TARIFF PERCENTAGE = 4.29%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	100.89	9.87	84.62 - 117.17	111.63
***HEIGHTS***					
AXILLA HEIGHT	4	45.06	1.10	43.24 - 46.87	46.72
BUSTPOINT HEIGHT	5	43.35	1.22	41.34 - 45.35	44.94
BUTTOCK HEIGHT	8	30.46	1.23	28.43 - 32.49	31.66
CERVICALE HEIGHT	71	51.78	1.13	49.92 - 53.64	53.58
CROTCH HEIGHT	7	27.77	1.10	25.95 - 29.60	28.91
SHOULDER HEIGHT	3	48.69	1.16	46.77 - 50.61	50.50
STATURE	2	60.00	1.15	58.09 - 61.91	62.00
WAIST HEIGHT	6	37.04	1.23	35.01 - 39.07	38.46
***LENGTHS***					
ACROMION - AXILLA	72	3.63	.35	3.05 - 4.21	3.78
AXILLA TO WAIST	50	8.62	.95	7.05 - 10.20	8.84
CERVICALE-ACROMION	73	3.09	.30	2.59 - 3.58	3.07
CERV. - BUSTPOINT	74	8.43	.74	7.21 - 9.65	8.64
CERVICALE-BUTTOCK	78	21.32	1.07	19.55 - 23.09	21.92
NECK TO BUSTPOINT	49	9.05	.64	7.99 - 10.11	9.33
SLEEVE INSEAM	51	16.57	.77	15.30 - 17.83	17.15
SLEEVE OUTSEAM	52	19.69	.63	18.31 - 21.06	20.40
SHOULDER TO ELBOW	13	12.27	.47	11.49 - 13.05	12.71
WAIST BACK	47	15.17	.92	13.65 - 16.69	15.60
WAIST FRONT	48	13.54	.93	12.00 - 15.06	13.89

\* UNITS ARE INCHES OR POUNDS

TABLE 40 (cont'd)

18 SIZE UPPER BODY  
X-SMALL SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	13.46	.61	12.45 - 14.47	13.89
BICEPS CIRC, FLXD	33	9.58	.64	8.53 - 10.63	9.86
BUST CIRCUMFERENCE	27	31.00	.58	30.05 - 31.95	32.00
BUST-WAIST, CIRC.	79	6.28	1.63	3.59 - 8.97	6.39
CHEST CIRC AT SCYE	26	30.83	1.02	29.14 - 32.52	31.65
CHEST C BELOW BUST	28	26.76	1.05	25.03 - 28.49	27.54
ELBOW CIRC FLXD	34	9.47	.52	8.61 - 10.32	9.75
FOREARM CIRC, FLXD	35	8.98	.46	8.23 - 9.74	9.22
HIP CIRCUMFERENCE	30	34.16	1.70	31.35 - 36.98	35.31
NECK CIRCUMFERENCE	24	12.03	.50	11.21 - 12.86	12.27
SHOULDER CIRCUMFER	25	36.55	1.23	34.51 - 38.58	37.45
VERTICAL TRUNK CIR	31	55.01	1.83	52.98 - 59.03	57.76
WAIST CIRCUMFERENC	29	24.72	1.70	21.92 - 27.53	25.61
WPIST CIRCUMFERENC	36	5.47	.22	5.11 - 5.84	5.59
***ARCS***					
BACK ARC, BUST	44	14.94	.69	13.80 - 16.08	15.37
BACK ARC, HIP	46	17.01	1.13	15.15 - 18.88	17.56
BACK ARC, WAIST	45	12.31	.88	10.86 - 13.77	12.74
INTERSCYE BACK	42	14.06	.81	12.73 - 15.39	14.34
INTERSCYE FRONT	43	12.30	.57	11.36 - 13.25	12.57
SHOULDER LENGTH	41	5.64	.39	4.99 - 6.29	5.76
***JEPTHS AND BREADTHS***					
BUST DEPTH	18	7.91	.41	7.23 - 8.59	8.19
CHEST BREADTH	20	10.14	.39	9.49 - 10.78	10.42
HIP BREADTH	22	12.75	.76	11.50 - 13.99	13.15
SHOULDER BREADTH	23	15.34	.55	14.43 - 16.25	15.72
WAIST BREADTH	21	8.94	.67	7.83 - 10.06	9.27
WAIST DEPTH	19	6.31	.60	5.33 - 7.30	6.53

TABLE 41

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## X-SMALL REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 30.00 - 31.99  
 THE RANGE FOR STATURE 62.00 - 65.99

N = 78      TARIFF PERCENTAGE = 6.08%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	111.52	9.87	95.24 - 127.80	122.26
***HEIGHTS***					
AXILLA HEIGHT	4	48.37	1.10	46.55 - 50.18	50.03
BUSTPOINT HEIGHT	5	46.63	1.22	44.62 - 48.63	48.22
BUTTOCK HEIGHT	8	32.81	1.23	30.78 - 34.84	34.01
CERVICALE HEIGHT	71	55.26	1.13	53.40 - 57.12	57.06
CROTCH HEIGHT	7	30.13	1.10	28.30 - 31.95	31.26
SHOULDER HEIGHT	3	52.20	1.16	50.28 - 54.12	54.01
STATURE	2	64.00	1.15	62.09 - 65.91	66.00
WAIST HEIGHT	6	39.94	1.23	37.91 - 41.97	41.35
***LENGTHS***					
ACROMION - AXILLA	72	3.83	.35	3.25 - 4.41	3.98
AXILLA TO WAIST	50	9.05	.95	7.48 - 10.63	9.27
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.05
CERV. - BUSTPOINT	74	8.64	.74	7.41 - 9.86	8.85
CERVICALE-BUTTOCK	78	22.45	1.07	20.68 - 24.22	23.05
NECK TO BUSTPOINT	49	9.22	.64	8.16 - 10.28	9.50
SLEEVE INSEAM	51	17.78	.77	16.52 - 19.05	18.37
SLEEVE OUTSEAM	52	21.10	.83	19.72 - 22.48	21.82
SHOULDER TO ELBOW	13	13.12	.47	12.34 - 13.90	13.56
WAIST BACK	47	16.00	.92	14.48 - 17.52	16.43
WAIST FRONT	48	14.03	.93	12.49 - 15.57	14.38

\* UNITS ARE INCHES OR POUNDS

TABLE 41 (cont'd)

18 SIZE UPPER BODY  
X-SMALL REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	13.76	.61	12.75 - 14.77	14.16
BICEPS CIRC, FLXD	33	9.63	.64	8.56 - 10.68	9.91
BUST CIRCUMFERENCE	27	31.00	.58	30.05 - 31.95	32.00
BUST-WAIST, CIRC.	79	6.20	1.63	3.51 - 8.89	6.31
CHEST CIRC AT SCYE	26	31.08	1.02	29.39 - 32.77	31.90
CHEST C BELOW BUST	28	26.99	1.05	25.26 - 28.72	27.76
ELBOW CIRC FLXD	34	9.83	.52	8.98 - 10.69	10.12
FOREARM CIRC, FLXD	35	9.16	.46	8.41 - 9.92	9.40
HIP CIRCUMFERENCE	30	35.17	1.70	32.36 - 37.98	36.32
NECK CIRCUMFERENCE	24	12.26	.50	11.44 - 13.09	12.50
SHOULDER CIRCUMFER	25	37.02	1.23	34.98 - 39.05	37.92
VERTICAL TRUNK CIR	31	58.41	1.63	55.38 - 61.43	60.16
WAIST CIRCUMFERENC	29	24.80	1.70	22.00 - 27.61	25.69
WRIST CIRCUMFERENC	36	5.63	.22	5.26 - 5.99	5.75
***ARCS***					
BACK ARC, BUST	44	14.97	.69	13.83 - 16.11	15.40
BACK ARC, HIP	46	17.42	1.13	15.56 - 19.29	17.97
BACK ARC, WAIST	45	12.34	.88	10.89 - 13.80	12.77
INTERSCYE BACK	42	14.31	.61	12.98 - 15.64	14.59
INTERSCYE FRONT	43	12.60	.57	11.66 - 13.55	12.87
SHOULDER LENGTH	41	5.88	.39	5.23 - 6.53	6.00
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	7.83	.41	7.15 - 8.52	8.12
CHEST BREADTH	20	13.21	.39	9.57 - 10.86	10.49
HIP BREADTH	22	13.16	.76	11.91 - 14.40	13.50
SHOULDER BREADTH	23	15.60	.55	14.69 - 16.51	15.99
WAIST BREADTH	21	9.06	.67	7.95 - 10.17	9.39
WAIST DEPTH	19	6.24	.60	5.25 - 7.22	6.46



TABLE 42

## 16 SIZE PROGRAM FOR THE UPPER BODY\*

## X-SMALL LONG

THE RANGE FOR BUST CIRCUMFERENCE 30.00 - 31.99  
 THE RANGE FOR STATURE 66.00 - 69.99

N = 25      TARIFF PERCENTAGE = 1.95%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	122.15	9.87	105.87 - 138.43	132.89
***HEIGHTS***					
AXILLA HEIGHT	4	51.68	1.10	49.87 - 53.49	53.34
BUSTPOINT HEIGHT	5	49.91	1.22	47.90 - 51.91	51.50
BUTTOCK HEIGHT	8	35.16	1.23	33.13 - 37.20	36.37
CERVICALE HEIGHT	71	58.75	1.13	56.89 - 60.61	60.25
CROTCH HEIGHT	7	32.48	1.10	30.69 - 34.30	33.61
SHOULDER HEIGHT	3	55.71	1.16	53.79 - 57.63	57.52
STATURE	2	68.00	1.15	66.09 - 69.91	70.00
WAIST HEIGHT	6	42.83	1.23	40.80 - 44.86	44.25
***LENGTHS***					
ACROMION - AXILLA	72	4.03	.35	3.45 - 4.61	4.18
AXILLA TO WAIST	50	9.48	.95	7.91 - 11.06	9.70
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	8.84	.74	7.62 - 10.06	9.05
CERVICALE-BUTTOCK	78	23.58	1.07	21.81 - 25.35	24.18
NECK TO BUSTPOINT	49	9.39	.64	8.33 - 10.45	9.67
SLEEVE INSEAM	51	19.00	.77	17.74 - 20.27	19.59
SLEEVE OUTSEAM	52	22.52	.83	21.14 - 23.89	23.23
SHOULDER TO ELBOW	13	13.97	.47	13.19 - 14.76	14.42
WAIST BACK	47	16.83	.92	15.31 - 18.35	17.26
WAIST FRONT	48	14.51	.93	12.97 - 16.05	14.87

\* UNITS ARE INCHES OR POUNDS

TABLE 42 (cont'd)

18 SIZE UPPER BODY  
X-SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.06	.61	13.05 - 15.07	14.48
BICEPS CIRC, FLXD	33	9.68	.64	8.63 - 10.73	9.96
BUST CIRCUMFERENCE	27	31.00	.58	30.05 - 31.95	32.00
BUST-WAIST, CIRC.	79	6.12	1.63	3.43 - 8.81	6.23
CHEST CIRC AT SCYE	26	31.33	1.02	29.64 - 33.02	32.15
CHEST C BELOW BUST	28	27.21	1.05	25.48 - 28.94	27.39
ELBOW CIRC FLXD	34	10.20	.52	9.35 - 11.06	10.49
FOREARM CIRC, FLXD	35	9.34	.46	8.59 - 10.10	9.58
HIP CIRCUMFERENCE	30	36.18	1.70	33.37 - 38.99	37.32
NECK CIRCUMFERENCE	24	12.49	.50	11.67 - 13.32	12.73
SHOULDER CIRCUMFER	25	37.49	1.23	35.45 - 39.52	38.39
VERTICAL TRUNK CIR	31	60.80	1.83	57.78 - 63.83	62.55
WAIST CIRCUMFERENC	29	24.88	1.70	22.08 - 27.69	25.77
WRIST CIRCUMFERENC	36	5.78	.22	5.42 - 6.15	5.90
***ARCS***					
BACK ARC, BUST	44	14.99	.69	13.85 - 16.14	15.42
BACK ARC, HIP	46	17.84	1.13	15.97 - 19.70	18.38
BACK ARC, WAIST	45	12.37	.88	10.92 - 13.83	12.80
INTERSCYE BACK	42	14.56	.61	13.23 - 15.89	14.84
INTERSCYE FRONT	43	12.91	.57	11.96 - 13.85	13.18
SHOULDER LENGTH	41	6.12	.39	5.47 - 6.76	6.24
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	7.76	.41	7.08 - 8.44	8.04
CHEST BREADTH	20	10.29	.39	9.64 - 10.94	10.57
HIP BREADTH	22	13.57	.76	12.32 - 14.81	13.97
SHOULDER BREADTH	23	15.87	.55	14.95 - 16.78	16.25
WAIST BREADTH	21	9.17	.67	8.06 - 10.28	9.50
WAIST DEPTH	19	6.16	.60	5.18 - 7.15	6.38

TABLE 43

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL SHORT

THE RANGE FOR BUST CIRCUMFERENCE 32.00 - 33.99  
 THE RANGE FOR STATURE 58.00 - 61.99

N = 94      TARIFF PERCENTAGE = 7.33%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	111.75	9.87	95.47 - 128.03	122.49
***HEIGHTS***					
AXILLA HEIGHT	4	45.07	1.10	43.26 - 46.89	45.73
BUSTPOINT HEIGHT	5	43.25	1.22	41.24 - 45.26	44.84
BUTTOCK HEIGHT	8	30.50	1.23	28.47 - 32.53	31.70
CERVICALE HEIGHT	71	51.89	1.13	50.03 - 53.75	53.69
CROTCH HEIGHT	7	27.69	1.10	25.87 - 29.52	28.83
SHOULDER HEIGHT	3	48.81	1.16	46.89 - 50.73	50.62
STATURE	2	60.00	1.15	58.09 - 61.91	62.00
WAIST HEIGHT	6	36.97	1.23	34.94 - 39.00	38.38
***LENGTHS***					
ACROMION - AXILLA	72	3.74	.35	3.16 - 4.32	3.89
AXILLA TO WAIST	50	8.53	.95	7.06 - 10.21	8.86
CERVICALE-ACROMION	73	3.09	.30	2.59 - 3.58	3.07
CERV. - BUSTPOINT	74	8.65	.74	7.42 - 9.87	8.85
CERVICALE-BUTTOCK	78	21.39	1.07	19.62 - 23.16	21.99
NECK TO BUSTPOINT	49	9.44	.64	8.38 - 10.50	9.72
SLEEVE INSEAM	51	16.51	.77	15.25 - 17.78	17.10
SLEEVE OUTSEAM	52	19.78	.83	18.32 - 21.07	20.41
SHOULDER TO ELBOW	13	12.30	.47	11.52 - 13.08	12.74
WAIST BACK	47	15.20	.92	13.67 - 16.72	15.62
WAIST FRONT	48	13.76	.93	12.22 - 15.30	14.12

\* UNITS ARE INCHES OR POUNDS

TABLE 43 (cont'd)

18 SIZE UPPER BODY  
SMALL SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.00	.61	12.99 - 15.01	14.41
BICEPS CIRC, FLXD	33	10.09	.64	9.03 - 11.14	10.37
BUST CIRCUMFERENCE	27	33.00	.58	32.05 - 33.95	34.00
BUST-WAIST, CIRC.	79	6.59	1.63	3.90 - 9.28	6.70
CHEST CIRC AT SCYE	26	32.22	1.02	30.53 - 33.91	33.04
CHEST C BELOW BUST	28	28.08	1.05	26.35 - 29.81	28.85
ELBOW CIRC FLXD	34	9.67	.52	8.81 - 10.53	9.95
FOREARM CIRC, FLXD	35	9.27	.46	8.51 - 10.02	9.50
HIP CIRCUMFERENCE	30	35.45	1.70	32.63 - 38.26	36.59
NECK CIRCUMFERENCE	24	12.28	.50	11.46 - 13.11	12.52
SHOULDER CIRCUMFER	25	37.88	1.23	35.85 - 39.91	38.78
VERTICAL TRUNK CIR	31	57.12	1.83	54.09 - 60.14	58.87
WAIST CIRCUMFERENC	29	26.41	1.70	23.61 - 29.21	27.30
WRIST CIRCUMFERENC	36	5.56	.22	5.19 - 5.92	5.68
***ARCS***					
BACK ARC, BUST	44	15.77	.69	14.63 - 16.92	16.20
BACK ARC, HIP	46	17.69	1.13	15.82 - 19.55	18.23
BACK ARC, WAIST	45	13.15	.88	11.69 - 14.60	13.58
INTERSCYE BACK	42	14.37	.81	13.04 - 15.70	14.65
INTERSCYE FRONT	43	12.54	.57	11.60 - 13.48	12.81
SHOULDER LENGTH	41	5.65	.39	5.00 - 6.30	5.77
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.55	.41	7.87 - 9.23	8.83
CHEST BREADTH	20	10.62	.39	9.97 - 11.27	10.90
HIP BREADTH	22	13.15	.76	11.90 - 14.40	13.55
SHOULDER BREADTH	23	15.84	.55	14.93 - 16.75	16.23
WAIST BREADTH	21	9.48	.67	8.37 - 10.60	9.81
WAIST DEPTH	19	6.83	.60	5.85 - 7.82	7.05

TABLE 44

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## SMALL REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 32.00 - 33.99  
 THE RANGE FOR STATURE 62.00 - 65.99

N = 219      TARIFF PERCENTAGE = 17.08%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	122.38	9.87	106.10 - 138.65	133.12
***HEIGHTS***					
AXILLA HEIGHT	4	48.38	1.10	46.57 - 50.20	50.05
BUSTPOINT HEIGHT	5	46.53	1.22	44.52 - 48.54	48.12
BUTTOCK HEIGHT	8	32.86	1.23	30.83 - 34.89	34.06
CERVICALE HEIGHT	71	55.38	1.13	53.52 - 57.24	57.18
CROTCH HEIGHT	7	30.04	1.10	28.22 - 31.87	31.18
SHOULDER HEIGHT	3	52.32	1.16	50.40 - 54.24	54.13
STATURE	2	64.00	1.15	62.09 - 65.91	66.00
WAIST HEIGHT	6	39.87	1.23	37.84 - 41.90	41.28
***LENGTHS***					
ACROMION - AXILLA	72	3.93	.35	3.35 - 4.51	4.08
AXILLA TO WAIST	50	9.06	.95	7.49 - 10.64	9.29
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.05
CERV. - BUSTPOINT	74	8.85	.74	7.63 - 10.07	9.06
CERVICALE-BUTTOCK	78	22.52	1.07	20.75 - 24.29	23.12
NECK TO BUSTPOINT	49	9.61	.64	8.55 - 10.67	9.89
SLEEVE INSEAM	51	17.73	.77	16.47 - 19.00	18.32
SLEEVE OUTSEAM	52	21.11	.83	19.74 - 22.49	21.83
SHOULDER TO ELBOW	13	13.15	.47	12.37 - 13.93	13.60
WAIST BACK	47	16.03	.92	14.51 - 17.55	16.46
WAIST FRONT	48	14.25	.93	12.71 - 15.79	14.61

\* UNITS ARE INCHES OR POUNDS

TABLE 44 (cont'd)

18 SIZE UPPER BODY  
SMALL REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.30	.61	13.28 - 15.31	14.71
BICEPS CIRC, FLXD	33	10.14	.64	9.09 - 11.19	10.42
BUST CIRCUMFERENCE	27	33.00	.58	32.05 - 33.95	34.00
BUST-WAIST, CIRC.	79	6.51	1.63	3.82 - 9.20	6.62
CHEST CIRC AT SCYE	26	32.47	1.02	30.78 - 34.16	33.29
CHEST C BELOW BUST	28	28.31	1.05	26.58 - 30.04	29.08
ELBOW CIRC FLXD	34	10.04	.52	9.18 - 10.89	10.32
FOREARM CIRC, FLXD	35	9.45	.46	8.69 - 10.20	9.68
HIP CIRCUMFERENCE	30	36.45	1.70	33.64 - 39.26	37.60
NECK CIRCUMFERENCE	24	12.51	.50	11.69 - 13.34	12.75
SHOULDER CIRCUMFER	25	38.35	1.23	36.32 - 40.38	39.25
VERTICAL TRUNK CIR	31	59.51	1.83	56.49 - 62.54	61.27
WAIST CIRCUMFERENC	29	26.49	1.70	23.69 - 29.30	27.38
WRIST CIRCUMFERENC	36	5.71	.22	5.35 - 6.08	5.83
***ARCS***					
BACK ARC, BUST	44	15.80	.69	14.66 - 16.94	16.23
BACK ARC, HIP	46	18.10	1.13	16.23 - 19.97	18.64
BACK ARC, WAIST	45	13.18	.88	11.72 - 14.63	13.61
INTERSCYE BACK	42	14.62	.81	13.29 - 15.95	14.90
INTERSCYE FRONT	43	12.84	.57	11.90 - 13.78	13.11
SHOULDER LENGTH	41	5.89	.39	5.24 - 6.54	6.01
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.47	.41	7.79 - 9.15	8.76
CHEST BREADTH	20	10.70	.39	10.05 - 11.35	10.98
HIP BREADTH	22	13.56	.76	12.31 - 14.81	13.96
SHOULDER BREADTH	23	16.11	.55	15.19 - 17.02	16.49
WAIST BREADTH	21	9.60	.67	8.49 - 10.71	9.93
WAIST DEPTH	19	6.76	.60	5.77 - 7.74	6.98

TABLE 45

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

SMALL LONG

THE RANGE FOR BUST CIRCUMFERENCE 32.00 - 33.99  
 THE RANGE FOR STATURE 66.00 - 69.99

N = 55      TARIFF PERCENTAGE = 4.29%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	133.00	9.87	116.73 - 149.28	143.74
***HEIGHTS***					
AXILLA HEIGHT	4	51.69	1.10	49.88 - 53.51	53.36
BUSTPOINT HEIGHT	5	49.81	1.22	47.80 - 51.82	51.40
BUTTOCK HEIGHT	8	35.21	1.23	33.18 - 37.24	36.41
CERVICALE HEIGHT	71	58.87	1.13	57.01 - 60.72	60.67
CROTCH HEIGHT	7	32.40	1.10	30.57 - 34.22	33.53
SHOULDER HEIGHT	3	55.83	1.16	53.91 - 57.75	57.54
STATURE	2	68.00	1.15	66.09 - 69.91	70.00
WAIST HEIGHT	6	42.76	1.23	40.73 - 44.79	44.17
***LENGTHS***					
ACROMION - AXILLA	72	4.13	.35	3.55 - 4.71	4.28
AXILLA TO WAIST	50	9.50	.95	7.92 - 11.07	9.72
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.06	.74	7.83 - 10.28	9.27
CERVICALE-BUTTOCK	78	23.65	1.07	21.88 - 25.42	24.25
NECK TO BUSTPOINT	49	9.78	.64	8.72 - 10.84	10.06
SLEEVE INSEAM	51	18.95	.77	17.69 - 20.22	19.54
SLEEVE OUTSEAM	52	22.53	.83	21.15 - 23.91	23.24
SHOULDER TO ELBOW	13	14.01	.47	13.23 - 14.79	14.45
WAIST BACK	47	16.86	.92	15.34 - 18.38	17.29
WAIST FRONT	48	14.74	.93	13.20 - 16.28	15.09

\* UNITS ARE INCHES OR POUNDS

TABLE 45 (cont'd)

18 SIZE UPPER BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.59	.61	13.58 - 15.60	15.01
BICEPS CIRC, FLXD	33	10.19	.64	9.14 - 11.24	10.47
BUST CIRCUMFERENCE	27	33.00	.58	32.05 - 33.95	34.00
BUST-WAIST, CIRC.	79	6.43	1.63	3.74 - 9.12	6.54
CHEST CIRC AT SCYE	26	32.72	1.02	31.03 - 34.41	33.54
CHEST C BELOW BUST	28	28.53	1.05	26.80 - 30.26	29.30
ELBOW CIRC FLXD	34	10.41	.52	9.55 - 11.26	10.69
FOREARM CIRC, FLXD	35	9.63	.46	8.87 - 10.38	9.86
HIP CIRCUMFERENCE	30	37.46	1.70	34.65 - 40.27	38.60
NECK CIRCUMFERCNE	24	12.74	.50	11.92 - 13.57	12.98
SHOULDER CIRCUMFER	25	38.82	1.23	36.79 - 40.85	39.72
VERTICAL TRUNK CIR	31	61.91	1.83	58.89 - 64.93	63.66
WAIST CIRCUMFERENC	29	26.57	1.70	23.77 - 29.38	27.46
WRIST CIRCUMFERENC	36	5.87	.22	5.50 - 6.23	5.99
***ARCS***					
BACK ARC, BUST	44	15.83	.69	14.69 - 16.97	16.26
BACK ARC, HIP	46	18.51	1.13	16.65 - 20.38	19.06
BACK ARC, WAIST	45	13.21	.88	11.75 - 14.66	13.64
INTERSCYE BACK	42	14.87	.81	13.54 - 16.20	15.15
INTERSCYE FRONT	43	13.14	.57	12.20 - 14.09	13.41
SHOULDER LENGTH	41	6.12	.39	5.48 - 6.77	6.25
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.40	.41	7.72 - 9.08	8.68
CHEST BREADTH	20	10.77	.39	10.13 - 11.42	11.06
HIP BREADTH	22	13.97	.76	12.72 - 15.22	14.37
SHOULDER BREADTH	23	16.37	.55	15.45 - 17.28	16.76
WAIST BREADTH	21	9.71	.67	8.60 - 10.82	10.04
WAIST DEPTH	19	6.68	.60	5.70 - 7.66	6.90



TABLE 46

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM SHORT

THE RANGE FOR BUST CIRCUMFERENCE 34.00 - 35.99  
 THE RANGE FOR STATURE 58.00 - 61.99

N = 57      TARIFF PERCENTAGE = 4.45%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	122.60	9.87	106.33 - 138.88	133.35
***HEIGHTS***					
AXILLA HEIGHT	4	45.09	1.10	43.27 - 46.90	46.75
BUSTPOINT HEIGHT	5	43.15	1.22	41.14 - 45.16	44.74
BUTTOCK HEIGHT	8	38.55	1.23	28.52 - 32.58	31.75
CERVICALE HEIGHT	71	52.01	1.13	50.15 - 53.87	53.81
CROTCH HEIGHT	7	27.61	1.10	25.79 - 29.43	28.75
SHOULDER HEIGHT	3	48.93	1.16	47.01 - 50.84	50.74
STATURE	2	60.00	1.15	58.09 - 61.91	62.00
WAIST HEIGHT	6	36.90	1.23	34.87 - 38.93	38.31
***LENGTHS***					
ACROMION - AXILLA	72	3.84	.35	3.26 - 4.42	3.99
AXILLA TO WAIST	50	8.65	.95	7.07 - 10.22	8.87
CERVICALE-ACROMION	73	3.09	.30	2.59 - 3.58	3.07
CERV. - BUSTPOINT	74	8.86	.74	7.64 - 10.08	9.07
CERVICALE-BUTTOCK	78	21.46	1.07	19.69 - 23.23	22.06
NECK TO BUSTPOINT	49	9.83	.64	8.77 - 10.89	10.11
SLEEVE INSEAM	51	16.46	.77	15.20 - 17.73	17.05
SLEEVE OUTSEAM	52	19.71	.83	18.33 - 21.09	20.42
SHOULDER TO ELBOW	13	12.33	.47	11.55 - 13.11	12.78
WAIST BACK	47	15.22	.92	13.70 - 16.74	15.65
WAIST FRONT	48	13.99	.93	12.45 - 15.53	14.34

\* UNITS ARE INCHES OR POUNDS

TABLE 46 (cont'd)

18 SIZE UPPER BODY  
MEDIUM SHORT

	VAR NO	MIO-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ARM CIRC AT SCYE	32	14.53	.61	13.52 - 15.54	14.95
BICEPS CIRC, FLXD	33	10.59	.64	9.54 - 11.65	10.87
BUST CIRCUMFERENCE	27	35.00	.58	34.05 - 35.95	36.00
BUST-WAIST, CIRC.	79	6.90	1.63	4.21 - 9.59	7.02
CHEST CIRC AT SCYE	26	33.61	1.02	31.92 - 35.29	34.43
CHEST C BELOW BUST	28	29.40	1.05	27.67 - 31.13	30.17
ELBOW CIRC FLXD	34	9.87	.52	9.01 - 10.73	10.16
FOREARM CIRC, FLXD	35	9.55	.46	8.79 - 10.30	9.78
HIP CIRCUMFERENCE	30	36.73	1.70	33.92 - 39.54	37.87
NECK CIRCUMFERCNC	24	12.53	.50	11.71 - 13.36	12.77
SHOULDER CIRCUMFER	25	39.21	1.23	37.18 - 41.24	40.11
VERTICAL TRUNK CIR	31	58.23	1.83	55.20 - 61.25	59.98
WAIST CIRCUMFERENC	29	28.10	1.70	25.30 - 30.90	28.98
WRIST CIRCUMFERENC	36	5.64	.22	5.28 - 6.00	5.76
<b>***ARCS***</b>					
BACK ARC, BUST	44	16.61	.69	15.47 - 17.75	17.04
BACK ARC, HIP	46	18.36	1.13	16.50 - 20.23	18.91
BACK ARC, WAIST	45	13.98	.88	12.52 - 15.43	14.41
INTERSCYE BACK	42	14.69	.81	13.35 - 16.02	14.97
INTERSCYE FRONT	43	12.78	.57	11.83 - 13.72	13.05
SHOULDER LENGTH	41	5.66	.39	5.01 - 6.31	5.78
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	9.19	.41	8.51 - 9.87	9.47
CHEST BREADTH	20	11.11	.39	10.46 - 11.75	11.39
HIP BREADTH	22	13.55	.76	12.30 - 14.80	13.96
SHOULDER BREADTH	23	16.34	.55	15.43 - 17.26	16.73
WAIST BREADTH	21	10.02	.67	8.91 - 11.14	10.35
WAIST DEPTH	19	7.35	.60	6.36 - 8.33	7.57

TABLE 47

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 34.00 - 35.99  
 THE RANGE FOR STATURE 62.00 - 65.99

N = 250      TARIFF PERCENTAGE = 19.50%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	133.23	9.67	116.95 - 149.51	143.97
***HEIGHTS***					
AXILLA HEIGHT	4	48.40	1.10	46.58 - 50.21	50.06
BUSTPOINT HEIGHT	5	46.43	1.22	44.42 - 48.44	48.02
BUTTOCK HEIGHT	8	32.90	1.23	30.87 - 34.94	34.11
CERVICALE HEIGHT	71	55.50	1.13	53.64 - 57.36	57.30
CROTCH HEIGHT	7	29.96	1.10	28.14 - 31.79	31.10
SHOULDER HEIGHT	3	52.43	1.16	50.51 - 54.35	54.25
STATURE	2	64.00	1.15	62.09 - 65.91	66.00
WAIST HEIGHT	6	39.80	1.23	37.76 - 41.83	41.21
***LENGTHS***					
ACROMION - AXILLA	72	4.04	.35	3.46 - 4.62	4.19
AXILLA TO WAIST	50	9.08	.95	7.50 - 10.65	9.30
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.05
CERV. - BUSTPOINT	74	9.06	.74	7.84 - 10.29	9.27
CERVICALE-BUTTOCK	78	22.59	1.07	20.82 - 24.36	23.19
NECK TO BUSTPOINT	49	10.00	.64	8.94 - 11.06	10.28
SLEEVE INSEAM	51	17.68	.77	16.42 - 18.95	18.27
SLEEVE OUTSEAM	52	21.13	.83	19.75 - 22.50	21.84
SHOULDER TO ELBOW	13	13.19	.47	12.41 - 13.97	13.63
WAIST BACK	47	16.05	.92	14.53 - 17.57	16.48
WAIST FRONT	48	14.47	.93	12.93 - 16.01	14.83

\* UNITS ARE INCHES OR POUNDS

TABLE 47 (cont'd)

18 SIZE UPPER BODY  
MEDIUM REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	14.83	.61	13.82 - 15.84	15.25
BICEPS CIRC, FLXD	33	10.65	.64	9.59 - 11.70	10.93
BUST CIRCUMFERENCE	27	35.00	.58	34.05 - 35.95	36.00
BUST-WAIST, CIRC.	79	6.82	1.63	4.13 - 9.51	6.94
CHEST CIRC AT SCYE	26	33.86	1.02	32.17 - 35.55	34.68
CHEST C BELOW BUST	28	29.62	1.05	27.89 - 31.35	30.40
ELBOW CIRC FLXD	34	10.24	.52	9.38 - 11.10	10.53
FOREARM CIRC, FLXD	35	9.73	.46	8.97 - 10.48	9.96
HIP CIRCUMFERENCE	30	37.74	1.70	34.92 - 40.55	38.88
NECK CIRCUMFERCNC	24	12.76	.50	11.94 - 13.59	13.00
SHOULDER CIRCUMFER	25	39.68	1.23	37.65 - 41.71	40.58
VERTICAL TRUNK CIR	31	60.62	1.83	57.60 - 63.65	62.38
WAIST CIRCUMFERENC	29	28.18	1.70	25.38 - 30.98	29.86
WRIST CIRCUMFERENC	36	5.79	.22	5.43 - 6.16	5.91
***ARCS***					
BACK ARC, BUST	44	16.63	.69	15.49 - 17.78	17.06
BACK ARC, HIP	46	18.78	1.13	16.91 - 20.64	19.32
BACK ARC, WAIST	45	14.01	.88	12.55 - 15.46	14.44
INTERSCYE BACK	42	14.94	.81	13.60 - 16.27	15.22
INTERSCYE FRONT	43	13.08	.57	12.14 - 14.02	13.35
SHOULDER LENGTH	41	5.90	.39	5.25 - 6.55	6.02
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.11	.41	8.43 - 9.79	9.40
CHEST BREADTH	20	11.18	.39	10.54 - 11.83	11.46
HIP BREADTH	22	13.96	.76	12.71 - 15.21	14.37
SHOULDER BREADTH	23	16.61	.55	15.78 - 17.52	16.99
WAIST BREADTH	21	10.14	.67	9.83 - 11.25	10.47
WAIST DEPTH	19	7.27	.60	6.29 - 8.26	7.49

TABLE 48

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## MEDIUM LONG

THE RANGE FOR BUST CIRCUMFERENCE 34.00 - 35.99  
 THE RANGE FOR STATURE 66.00 - 69.99

N = 93      TARIFF PERCENTAGE = 7.25%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	143.86	9.87	127.58 - 160.14	154.60
***HEIGHTS***					
AXILLA HEIGHT	4	51.71	1.10	49.89 - 53.52	53.37
BUSTPOINT HEIGHT	5	49.71	1.22	47.70 - 51.72	51.30
BUTTOCK HEIGHT	8	35.26	1.23	33.23 - 37.29	36.46
CERVICALE HEIGHT	71	58.98	1.13	57.12 - 60.84	60.78
CROTCH HEIGHT	7	32.31	1.18	30.49 - 34.14	33.45
SHOULDER HEIGHT	3	55.94	1.16	54.82 - 57.86	57.76
STATURE	2	68.08	1.15	66.09 - 69.91	70.00
WAIST HEIGHT	6	42.69	1.23	40.66 - 44.72	44.10
***LENGTHS***					
ACROMION - AXILLA	72	4.23	.35	3.65 - 4.82	4.39
AXILLA TO WAIST	50	9.51	.95	7.93 - 11.08	9.73
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.27	.74	8.05 - 10.49	9.48
CERVICALE-BUTTOCK	78	23.72	1.07	21.95 - 25.49	24.32
NECK TO BUSTPOINT	49	10.17	.64	9.11 - 11.23	10.45
SLEEVE INSEAM	51	18.90	.77	17.64 - 20.17	19.49
SLEEVE OUTSEAM	52	22.54	.83	21.17 - 23.92	23.26
SHOULDER TO ELBOW	13	14.04	.47	13.26 - 14.82	14.48
WAIST BACK	47	16.89	.92	15.36 - 18.41	17.31
WAIST FRONT	48	14.96	.93	13.42 - 16.50	15.32

\* UNITS ARE INCHES OR POUNDS

TABLE 48 (cont'd)

18 SIZE UPPER BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.13	.61	14.12 - 16.14	15.55
BICEPS CIRC, FLXD	33	10.70	.64	9.65 - 11.75	10.98
BUST CIRCUMFERENCE	27	35.00	.58	34.05 - 35.95	36.00
BUST-WAIST, CIRC.	79	6.74	1.63	4.05 - 9.43	6.86
CHEST CIRC AT SCYE	26	34.11	1.02	32.42 - 35.80	34.93
CHEST C BELOW BUST	28	29.85	1.05	28.12 - 31.58	30.62
ELBOW CIRC FLXD	34	10.61	.52	9.75 - 11.47	10.90
FOREARM CIRC, FLXD	35	9.91	.46	9.15 - 10.66	10.14
HIP CIRCUMFERENCE	30	38.74	1.70	35.93 - 41.55	39.89
NECK CIRCUMFERCNC	24	12.99	.50	12.17 - 13.82	13.23
SHOULDER CIRCUMFER	25	40.15	1.23	38.12 - 42.18	41.05
VERTICAL TRUNK CIR	31	63.02	1.83	60.00 - 66.04	64.77
WAIST CIRCUMFERENC	29	28.26	1.70	25.46 - 31.06	29.14
WRIST CIRCUMFERENC	36	5.95	.22	5.59 - 6.31	6.07
***ARCS***					
BACK ARC, BUST	44	16.66	.69	15.52 - 17.80	17.09
BACK ARC, HIP	46	19.19	1.13	17.32 - 21.05	19.73
BACK ARC, WAIST	45	14.04	.88	12.58 - 15.50	14.47
INTERSCYE BACK	42	15.19	.81	13.85 - 16.52	15.47
INTERSCYE FRONT	43	13.38	.57	12.44 - 14.32	13.65
SHOULDER LENGTH	41	6.13	.39	5.49 - 6.78	6.26
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.04	.41	8.36 - 9.72	9.32
CHEST BREADTH	20	11.26	.39	10.61 - 11.91	11.54
HIP BREADTH	22	14.37	.76	13.12 - 15.62	14.78
SHOULDER BREADTH	23	16.88	.55	15.96 - 17.79	17.26
WAIST BREADTH	21	10.25	.67	9.14 - 11.36	10.58
WAIST DEPTH	19	7.20	.60	6.21 - 8.18	7.42

TABLE 49

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE SHORT

THE RANGE FOR BUST CIRCUMFERENCE 36.00 - 37.99  
 THE RANGE FOR STATURE 60.00 - 63.99

N = 92      TARIFF PERCENTAGE = 7.18%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	138.77	9.87	122.50 - 155.05	149.51
***HEIGHTS***					
AXILLA HEIGHT	4	46.76	1.18	44.94 - 48.57	48.42
BUSTPOINT HEIGHT	5	44.69	1.22	42.69 - 46.70	46.29
BUTTOCK HEIGHT	8	31.77	1.23	29.74 - 33.81	32.98
CERVICALE HEIGHT	71	53.87	1.13	52.01 - 55.73	55.67
CROTCH HEIGHT	7	28.71	1.18	26.88 - 30.53	29.94
SHOULDER HEIGHT	3	58.88	1.16	48.88 - 52.72	52.61
STATURE	2	62.00	1.15	60.09 - 63.91	64.80
WAIST HEIGHT	6	38.28	1.23	36.25 - 40.31	39.69
***LENGTHS***					
ACROMION - AXILLA	72	4.04	.35	3.46 - 4.62	4.19
AXILLA TO WAIST	58	8.88	.95	7.30 - 10.45	9.10
CERVICALE-ACROMION	73	3.07	.38	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	9.18	.74	7.95 - 10.40	9.39
CERVICALE-BUTTOCK	78	22.10	1.07	20.33 - 23.86	22.70
NECK TO BUSTPOINT	49	10.31	.64	9.25 - 11.36	10.59
SLEEVE INSEAM	51	17.02	.77	15.76 - 18.29	17.61
SLEEVE OUTSEAM	52	20.43	.83	19.06 - 21.81	21.15
SHOULDER TO ELBOW	13	12.79	.47	12.01 - 13.57	13.23
WAIST BACK	47	15.66	.92	14.14 - 17.18	16.09
WAIST FRONT	48	14.45	.93	12.91 - 15.99	14.81

\* UNITS ARE INCHES OR POUNDS

TABLE 49 (cont'd)

18 SIZE UPPER BODY  
LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.22	.61	14.21 - 16.23	15.64
BICEPS CIRC, FLXD	33	11.13	.64	10.08 - 12.18	11.41
BUST CIRCUMFERENCE	27	37.00	.58	36.05 - 37.95	38.00
BUST-WAIST, CIRC.	79	7.17	1.63	4.48 - 9.86	7.29
CHEST CIRC AT SCYE	26	35.12	1.02	33.43 - 36.81	35.94
CHEST C BELOW BUST	28	30.83	1.05	29.10 - 32.56	31.60
ELBOW CIRC FLXD	34	10.26	.52	9.40 - 11.12	10.54
FOREARM CIRC, FLXD	35	9.92	.46	9.16 - 10.68	10.15
HIP CIRCUMFERENCE	30	38.51	1.70	35.70 - 41.33	39.66
NECK CIRCUMFERENCE	24	12.90	.50	12.08 - 13.72	13.14
SHOULDER CIRCUMFER	25	40.78	1.23	38.75 - 42.81	41.58
VERTICAL TRUNK CIR	31	60.53	1.83	57.51 - 63.56	62.29
WAIST CIRCUMFERENC	29	29.83	1.70	27.02 - 32.63	30.71
WRIST CIRCUMFERENC	36	5.80	.22	5.44 - 6.17	5.92
***ARCS***					
BACK ARC, BUST	44	17.45	.69	16.31 - 18.60	17.88
BACK ARC, HIP	46	19.25	1.13	17.38 - 21.11	19.79
BACK ARC, WAIST	45	14.83	.88	13.37 - 16.28	15.26
INTERSCYE BACK	42	15.13	.81	13.79 - 16.46	15.41
INTERSCYE FRONT	43	13.16	.57	12.22 - 14.11	13.43
SHOULDER LENGTH	41	5.79	.39	5.14 - 6.44	5.91
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.79	.41	9.11 - 10.47	10.07
CHEST BREADTH	20	11.63	.39	10.98 - 12.28	11.91
HIP BREADTH	22	14.16	.76	12.91 - 15.41	14.56
SHOULDER BREADTH	23	16.98	.55	16.07 - 17.89	17.37
WAIST BREADTH	21	10.62	.67	9.51 - 11.73	10.95
WAIST DEPTH	19	7.83	.60	6.84 - 8.81	8.05



TABLE 50

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 36.00 - 37.99

THE RANGE FOR STATURE 64.00 - 67.99

N = 123      TARIFF PERCENTAGE = 9.59%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	149.40	9.87	133.12 - 165.68	160.14
***HEIGHTS***					
AXILLA HEIGHT	4	50.07	1.10	48.25 - 51.88	51.73
BUSTPOINT HEIGHT	5	47.97	1.22	45.97 - 49.98	49.57
BUTTOCK HEIGHT	8	34.13	1.23	32.10 - 36.16	35.33
CERVICAL HEIGHT	71	57.36	1.13	55.50 - 59.22	59.16
CROTCH HEIGHT	7	31.06	1.10	29.24 - 32.88	32.19
SHOULDER HEIGHT	3	54.31	1.16	52.39 - 56.23	56.12
STATURE	2	66.00	1.15	64.09 - 67.91	68.00
WAIST HEIGHT	6	41.17	1.23	39.14 - 43.20	42.58
***LENGTHS***					
ACROMION - AXILLA	72	4.24	.35	3.66 - 4.82	4.39
AXILLA TO WAIST	50	9.31	.95	7.73 - 10.88	9.53
CERVICAL-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.38	.74	8.16 - 10.60	9.59
CERVICAL-BUTTOCK	78	23.23	1.07	21.46 - 25.00	23.83
NECK TO BUSTPOINT	49	10.48	.64	9.42 - 11.53	10.76
SLEEVE INSEAM	51	18.24	.77	16.97 - 19.51	18.83
SLEEVE OUTSEAM	52	21.85	.83	20.47 - 23.22	22.56
SHOULDER TO ELBOW	13	13.64	.47	12.86 - 14.42	14.08
WAIST BACK	47	16.50	.92	14.97 - 18.02	16.92
WAIST FRONT	48	14.94	.93	13.40 - 16.48	15.30

\* UNITS ARE INCHES OR POUNDS

TABLE 50 (cont'd)

18 SIZE UPPER BODY  
LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.52	.61	14.51 - 16.53	15.94
BICEPS CIRC, FLXD	33	11.18	.64	10.13 - 12.23	11.46
BUST CIRCUMFERENCE	27	37.00	.58	36.05 - 37.95	38.00
BUST-WAIST, CIRC.	79	7.09	1.63	4.40 - 9.78	7.21
CHEST CIRC AT SCYE	26	35.37	1.02	33.68 - 37.06	36.19
CHEST C BELOW BUST	28	31.05	1.05	29.32 - 32.78	31.83
ELBOW CIRC FLXD	34	10.63	.52	9.77 - 11.48	10.91
FOREARM CIRC, FLXD	35	10.10	.46	9.34 - 10.86	10.33
HIP CIRCUMFERENCE	30	39.52	1.70	36.71 - 42.33	40.67
NECK CIRCUMFERCNC	24	13.13	.50	12.31 - 13.95	13.37
SHOULDER CIRCUMFER	25	41.25	1.23	39.22 - 43.28	42.15
VERTICAL TRUNK CIR	31	62.93	1.83	59.91 - 65.95	64.68
WAIST CIRCUMFERENC	29	29.91	1.70	27.10 - 32.71	30.79
WRIST CIRCUMFERENC	36	5.96	.22	5.59 - 6.32	6.08
***ARCS***					
BACK ARC, BUST	44	17.48	.69	16.34 - 18.62	17.91
BACK ARC, HIP	46	19.66	1.13	17.79 - 21.52	20.20
BACK ARC, WAIST	45	14.86	.88	13.40 - 16.31	15.29
INTERSCYE BACK	42	15.38	.81	14.04 - 16.71	15.66
INTERSCYE FRONT	43	13.47	.57	12.52 - 14.41	13.74
SHOULDER LENGTH	41	6.03	.39	5.38 - 6.67	6.15
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.72	.41	9.03 - 10.40	10.00
CHEST BREADTH	20	11.71	.39	11.06 - 12.35	11.99
HIP BREADTH	22	14.57	.76	13.32 - 15.82	14.97
SHOULDER BREADTH	23	17.25	.55	16.34 - 18.16	17.63
WAIST BREADTH	21	10.74	.67	9.62 - 11.85	11.06
WAIST DEPTH	19	7.75	.60	6.77 - 8.73	7.97

TABLE 51

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 36.00 - 37.99  
 THE RANGE FOR STATURE 68.00 - 71.99

N = 25      TARIFF PERCENTAGE = 1.95%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	160.03	9.87	143.75 - 176.30	170.77
***HEIGHTS***					
AXILLA HEIGHT	4	53.38	1.10	51.56 - 55.19	55.04
BUSTPOINT HEIGHT	5	51.25	1.22	49.25 - 53.26	52.85
BUTTOCK HEIGHT	8	36.48	1.23	34.45 - 38.51	37.68
CERVICAL HEIGHT	71	60.84	1.13	58.98 - 62.70	62.64
CROTCH HEIGHT	7	33.41	1.10	31.59 - 35.23	34.55
SHOULDER HEIGHT	3	57.81	1.16	55.90 - 59.73	59.63
STATURE	2	70.00	1.15	68.09 - 71.91	72.00
WAIST HEIGHT	6	44.07	1.23	42.04 - 46.10	45.48
***LENGTHS***					
ACROMION - AXILLA	72	4.44	.35	3.86 - 5.02	4.59
AXILLA TO WAIST	50	9.74	.95	8.16 - 11.31	9.96
CERVICAL-ACROMION	73	3.03	.30	2.54 - 3.52	3.02
CERV. - BUSTPOINT	74	9.59	.74	8.37 - 10.81	9.80
CERVICAL-BUTTOCK	78	24.36	1.07	22.59 - 26.13	24.96
NECK TO BUSTPOINT	49	10.65	.64	9.59 - 11.70	10.93
SLEEVE INSEAM	51	19.46	.77	18.19 - 20.73	20.05
SLEEVE OUTSEAM	52	23.26	.83	21.89 - 24.64	23.98
SHOULDER TO ELBOW	13	14.50	.47	13.71 - 15.28	14.94
WAIST BACK	47	17.33	.92	15.81 - 18.85	17.76
WAIST FRONT	48	15.43	.93	13.89 - 16.97	15.78

\* UNITS ARE INCHES OR POUNDS

TABLE 51 (cont'd)

18 SIZE UPPER BODY  
LARGE LONG

	VAR NO	MIO-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.82	.61	14.81 - 16.83	16.23
BICEPS CIRC, FLXD	33	11.23	.64	10.18 - 12.29	11.51
BUST CIRCUMFERENCE	27	37.00	.58	36.05 - 37.95	38.00
BUST-WAIST, CIRC.	79	7.01	1.63	4.32 - 9.70	7.13
CHEST CIRC AT SCYE	26	35.62	1.02	33.93 - 37.31	36.44
CHEST C BELOW BUST	28	31.28	1.05	29.55 - 33.01	32.05
ELBOW CIRC FLXD	34	11.00	.52	10.14 - 11.85	11.28
FOREARM CIRC, FLXD	35	10.28	.46	9.52 - 11.04	10.51
HIP CIRCUMFERENCE	30	40.53	1.70	37.72 - 43.34	41.67
NECK CIRCUMFERCNC	24	13.36	.50	12.53 - 14.18	13.60
SHOULDER CIRCUMFER	25	41.72	1.23	39.69 - 43.75	42.52
VERTICAL TRUNK CIR	31	65.33	1.83	62.30 - 68.35	67.08
WAIST CIRCUMFERENC	29	29.99	1.70	27.18 - 32.79	30.87
WRIST CIRCUMFERENC	36	6.11	.22	5.75 - 6.48	6.23
***ARCS***					
BACK ARC, BUST	44	17.51	.69	16.37 - 18.65	17.94
BACK ARC, HIP	46	20.07	1.13	18.21 - 21.94	20.52
BACK ARC, WAIST	45	14.89	.88	13.43 - 16.34	15.32
INTERSCYE BACK	42	15.63	.81	14.29 - 16.96	15.91
INTERSCYE FRONT	43	13.77	.57	12.83 - 14.71	14.04
SHOULDER LENGTH	41	6.26	.39	5.62 - 6.91	6.39
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.64	.41	8.96 - 10.32	9.92
CHEST BREADTH	20	11.78	.39	11.14 - 12.43	12.06
HIP BREADTH	22	14.98	.76	13.73 - 16.23	15.39
SHOULDER BREADTH	23	17.51	.55	16.60 - 18.42	17.90
WAIST BREADTH	21	10.85	.67	9.74 - 11.96	11.18
WAIST DEPTH	19	7.67	.60	6.69 - 8.66	7.90

TABLE 52

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE SHORT

THE RANGE FOR BUST CIRCUMFERENCE 38.00 - 39.99  
 THE RANGE FOR STATURE 60.00 - 63.99

N = 34      TARIFF PERCENTAGE = 2.65%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	149.63	9.87	133.35 - 165.91	160.37
***HEIGHTS***					
AXILLA HEIGHT	4	46.77	1.10	44.96 - 48.58	48.43
BUSTPOINT HEIGHT	5	44.60	1.22	42.59 - 46.61	46.19
BUTTOCK HEIGHT	8	31.82	1.23	29.79 - 33.85	33.02
CERVICALE HEIGHT	71	53.99	1.13	52.13 - 55.85	55.79
CROTCH HEIGHT	7	28.63	1.10	26.80 - 30.45	29.76
SHOULDER HEIGHT	3	50.91	1.16	48.99 - 52.83	52.73
STATURE	2	62.00	1.15	60.09 - 63.91	64.00
WAIST HEIGHT	6	38.20	1.23	36.17 - 40.23	39.62
***LENGTHS***					
ACROMION - AXILLA	72	4.14	.35	3.56 - 4.72	4.29
AXILLA TO WAIST	50	8.89	.95	7.31 - 10.46	9.11
CERVICALE-ACROMION	73	3.07	.30	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	9.39	.74	8.17 - 10.61	9.60
CERVICALE-BUTTOCK	78	22.17	1.07	20.40 - 23.93	22.77
NECK TO BUSTPOINT	49	10.70	.64	9.64 - 11.75	10.98
SLEEVE INSEAM	51	16.97	.77	15.70 - 18.24	17.56
SLEEVE OUTSEAM	52	20.44	.83	19.07 - 21.82	21.16
SHOULDER TO ELBOW	13	12.82	.47	12.04 - 13.60	13.26
WAIST BACK	47	15.69	.92	14.17 - 17.21	16.12
WAIST FRONT	48	14.68	.93	13.14 - 16.22	15.03

\* UNITS ARE INCHES OR POUNDS

TABLE 52 (cont'd)

18 SIZE UPPER BODY  
X-LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	15.75	.61	14.74 - 16.76	16.17
BICEPS CIRC, FLXD	33	11.64	.64	10.58 - 12.69	11.92
BUST CIRCUMFERENCE	27	39.00	.58	38.05 - 39.95	40.00
BUST-WAIST, CIRC.	79	7.49	1.63	4.80 - 10.18	7.60
CHEST CIRC AT SCYE	26	36.51	1.02	34.82 - 38.20	37.33
CHEST C BELOW BUST	28	32.15	1.05	30.42 - 33.88	32.92
ELBOW CIRC FLXD	34	10.46	.52	9.61 - 11.32	10.75
FOREARM CIRC, FLXD	35	10.20	.45	9.44 - 10.96	10.43
HIP CIRCUMFERENCE	30	39.80	1.70	36.99 - 42.61	40.94
NECK CIRCUMFERENCE	24	13.15	.50	12.33 - 13.97	13.39
SHOULDER CIRCUMFER	25	42.11	1.23	40.08 - 44.14	43.01
VERTICAL TRUNK CIR	31	61.64	1.83	58.62 - 64.67	63.39
WAIST CIRCUMFERENC	29	31.51	1.70	28.71 - 34.32	32.40
WRIST CIRCUMFERENC	36	5.89	.22	5.52 - 6.25	6.00
***ARCS***					
BACK ARC, BUST	44	18.29	.69	17.15 - 19.43	18.72
BACK ARC, HIP	46	19.92	1.13	18.06 - 21.79	20.47
BACK ARC, WAIST	45	15.66	.88	14.21 - 17.12	16.09
INTERSCYE BACK	42	15.44	.81	14.11 - 16.77	15.72
INTERSCYE FRONT	43	13.40	.57	12.46 - 14.34	13.67
SHOULDER LENGTH	41	5.80	.39	5.15 - 6.45	5.92
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.43	.41	9.75 - 11.11	10.71
CHEST BREADTH	20	12.11	.39	11.47 - 12.76	12.40
HIP BREADTH	22	14.56	.76	13.31 - 15.81	14.97
SHOULDER BREADTH	23	17.49	.55	16.57 - 18.40	17.87
WAIST BREADTH	21	11.16	.67	10.05 - 12.27	11.49
WAIST DEPTH	19	8.34	.60	7.36 - 9.33	8.56

TABLE 53

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 38.00 - 39.99  
 THE RANGE FOR STATURE 64.00 - 67.99

N = 50      TARIFF PERCENTAGE = 3.90%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	160.26	9.87	143.98 - 176.53	171.00
***HEIGHTS***					
AXILLA HEIGHT	4	50.08	1.10	48.27 - 51.89	51.74
BUSTPOINT HEIGHT	5	47.88	1.22	45.87 - 49.89	49.47
BUTTOCK HEIGHT	8	34.18	1.23	32.15 - 36.21	35.38
CERVICALE HEIGHT	71	57.47	1.13	55.61 - 59.33	59.27
CROTCH HEIGHT	7	30.96	1.10	29.15 - 32.80	32.11
SHOULDER HEIGHT	3	54.42	1.16	52.50 - 56.34	56.24
STATURE	2	66.00	1.15	64.09 - 67.91	68.00
WAIST HEIGHT	6	41.10	1.23	39.07 - 43.13	42.51
***LENGTHS***					
ACROMION - AXILLA	72	4.34	.35	3.76 - 4.92	4.49
AXILLA TO WAIST	50	9.32	.95	7.74 - 10.89	9.54
CERVICALE-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.60	.74	8.37 - 10.82	9.81
CERVICALE-BUTTOCK	78	23.30	1.07	21.53 - 25.07	23.90
NECK TO BUSTPOINT	49	10.87	.64	9.81 - 11.92	11.15
SLEEVE INSEAM	51	18.19	.77	16.92 - 19.46	18.78
SLEEVE OUTSEAM	52	21.86	.83	20.48 - 23.24	22.57
SHOULDER TO ELBOW	13	13.67	.47	12.89 - 14.45	14.12
WAIST BACK	47	16.52	.92	15.00 - 18.04	16.95
WAIST FRONT	48	15.16	.93	13.62 - 16.70	15.52

\* UNITS ARE INCHES OR POUNDS

TABLE 53 (cont'd)

18 SIZE UPPER BODY  
X-LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.05	.61	15.04 - 17.06	16.47
BICEPS CIRC, FLXD	33	11.69	.64	10.64 - 12.74	11.97
BUST CIRCUMFERENCE	27	39.00	.58	38.05 - 39.95	40.00
BUST-WAIST, CIRC.	79	7.41	1.63	4.72 - 10.10	7.52
CHEST CIRC AT SCYE	26	36.76	1.02	35.07 - 38.45	37.58
CHEST C BELOW BUST	28	32.37	1.05	30.64 - 34.10	33.14
ELBOW CIRC FLXD	34	10.83	.52	9.97 - 11.69	11.12
FOREARM CIRC, FLXD	35	10.38	.46	9.62 - 11.14	10.61
HIP CIRCUMFERENCE	30	40.80	1.70	37.99 - 43.62	41.95
NECK CIRCUMFERENCE	24	13.38	.50	12.56 - 14.20	13.62
SHOULDER CIRCUMFER	25	42.58	1.23	40.55 - 44.61	43.48
VERTICAL TRUNK CIR	31	64.04	1.83	61.02 - 67.86	65.79
WAIST CIRCUMFERENC	29	31.59	1.70	28.79 - 34.40	32.48
WRIST CIRCUMFERENC	36	6.84	.22	5.68 - 6.40	6.16
***ARCS***					
BACK ARC, BUST	44	18.31	.69	17.17 - 19.46	18.74
BACK ARC, HIP	46	20.33	1.13	18.47 - 22.20	20.88
BACK ARC, WAIST	45	15.69	.88	14.24 - 17.15	16.12
INTERSCYE BACK	42	15.69	.81	14.36 - 17.02	15.97
INTERSCYE FRONT	43	13.70	.57	12.76 - 14.65	13.97
SHOULDER LENGTH	41	6.04	.39	5.39 - 6.68	6.16
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.35	.41	9.67 - 11.04	10.64
CHEST BREADTH	20	12.19	.39	11.54 - 12.84	12.47
HIP BREADTH	22	14.97	.76	13.72 - 16.22	15.38
SHOULDER BREADTH	23	17.75	.55	16.84 - 18.66	18.14
WAIST BREADTH	21	11.28	.67	10.16 - 12.39	11.60
WAIST DEPTH	19	8.27	.60	7.28 - 9.25	8.49



TABLE 54

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## X-LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 38.00 - 39.99  
 THE RANGE FOR STATURE 68.00 - 71.99

N = 11      TARIFF PERCENTAGE = .86%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	170.88	9.87	154.60 - 187.16	181.62
***HEIGHTS***					
AXILLA HEIGHT	4	53.39	1.10	51.58 - 55.21	55.05
BUSTPOINT HEIGHT	5	51.16	1.22	49.15 - 53.17	52.75
BUTTOCK HEIGHT	8	36.53	1.23	34.50 - 38.56	37.73
CERVICAL HEIGHT	71	60.96	1.13	59.10 - 62.82	62.76
CROTCH HEIGHT	7	33.33	1.10	31.51 - 35.15	34.46
SHOULDER HEIGHT	3	57.93	1.16	56.01 - 59.85	59.74
STATURE	2	70.80	1.15	68.09 - 71.91	72.00
WAIST HEIGHT	6	43.99	1.23	41.96 - 46.03	45.41
***LENGTHS***					
ACROMION - AXILLA	72	4.54	.35	3.96 - 5.12	4.69
AXILLA TO WAIST	50	9.75	.95	8.17 - 11.33	9.97
CERVICAL-ACROMION	73	3.03	.30	2.54 - 3.52	3.02
CERV. - BUSTPOINT	74	9.80	.74	8.58 - 11.02	10.01
CERVICAL-BUTTOCK	78	24.43	1.07	22.66 - 26.20	25.03
NECK TO BUSTPOINT	49	11.04	.64	9.98 - 12.10	11.32
SLEEVE INSEAM	51	19.41	.77	18.14 - 20.68	20.00
SLEEVE OUTSEAM	52	23.28	.83	21.90 - 24.65	23.99
SHOULDER TO ELBOW	13	14.53	.47	13.75 - 15.31	14.97
WAIST BACK	47	17.35	.92	15.83 - 18.87	17.78
WAIST FRONT	48	15.65	.93	14.11 - 17.19	16.01

\* UNITS ARE INCHES OR POUNDS

TABLE 54 (cont'd)

18 SIZE UPPER BODY  
X-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.35	.61	15.34 - 17.36	16.77
BICEPS CIRC, FLXD	33	11.74	.64	10.69 - 12.79	12.02
BUST CIRCUMFERENCE	27	39.00	.58	38.05 - 39.95	40.00
BUST-WAIST, CIRC.	79	7.32	1.63	4.63 - 10.01	7.44
CHEST CIRC AT SCYE	26	37.01	1.02	35.32 - 38.70	37.83
CHEST C BELOW BUST	28	32.60	1.05	30.87 - 34.33	33.37
ELBOW CIRC FLXD	34	11.20	.52	10.34 - 12.06	11.49
FOREARM CIRC, FLXD	35	10.56	.46	9.80 - 11.32	10.79
HIP CIRCUMFERENCE	30	41.81	1.70	39.00 - 44.62	42.95
NECK CIRCUMFERENCE	24	13.61	.50	12.78 - 14.43	13.85
SHOULDER CIRCUMFER	25	43.05	1.23	41.02 - 45.08	43.95
VERTICAL TRUNK CIR	31	66.44	1.83	63.41 - 69.46	68.19
WAIST CIRCUMFERENC	29	31.68	1.70	28.87 - 34.48	32.56
WRIST CIRCUMFERENC	36	6.20	.22	5.83 - 6.56	6.31
***ARCS***					
BACK ARC, BUST	44	18.34	.69	17.20 - 19.48	18.77
BACK ARC, HIP	46	20.75	1.13	18.88 - 22.61	21.29
BACK ARC, WAIST	45	15.72	.88	14.27 - 17.18	16.16
INTERSCYE BACK	42	15.94	.81	14.61 - 17.27	16.22
INTERSCYE FRONT	43	14.01	.57	13.06 - 14.95	14.27
SHOULDER LENGTH	41	6.27	.39	5.63 - 6.92	6.40
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.28	.41	9.60 - 10.96	10.56
CHEST BREADTH	20	12.27	.39	11.62 - 12.92	12.55
HIP BREADTH	22	15.38	.76	14.13 - 16.63	15.79
SHOULDER BREADTH	23	18.02	.55	17.11 - 18.93	18.40
WAIST BREADTH	21	11.39	.67	10.28 - 12.50	11.72
WAIST DEPTH	19	8.19	.60	7.21 - 9.18	8.41

TABLE 55

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## XX-LARGE SHORT

THE RANGE FOR BUST CIRCUMFERENCE 40.00 - 41.99  
 THE RANGE FOR STATURE 60.00 - 63.99

N = 8 TARIFF PERCENTAGE = .62%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	160.48	9.87	144.21 - 176.76	171.22
***HEIGHTS***					
AXILLA HEIGHT	4	46.78	1.10	44.97 - 48.60	48.45
BUSTPOINT HEIGHT	5	44.50	1.22	42.49 - 46.51	46.09
BUTTOCK HEIGHT	8	31.87	1.23	29.84 - 33.90	33.07
CERVICALE HEIGHT	71	54.10	1.13	52.25 - 55.96	55.91
CROTCH HEIGHT	7	28.54	1.10	26.72 - 30.37	29.68
SHOULDER HEIGHT	3	51.03	1.16	49.11 - 52.95	52.84
STATURE	2	62.00	1.15	60.09 - 63.91	64.00
WAIST HEIGHT	6	38.13	1.23	36.10 - 40.16	39.54
***LENGTHS***					
ACROMION - AXILLA	72	4.25	.35	3.67 - 4.83	4.40
AXILLA TO WAIST	50	8.90	.95	7.33 - 10.48	9.12
CERVICALE-ACROMION	73	3.07	.30	2.56 - 3.56	3.06
CERV. - BUSTPOINT	74	9.60	.74	8.38 - 10.83	9.81
CERVICALE-BUTTOCK	78	22.24	1.07	20.47 - 24.00	22.84
NECK TO BUSTPOINT	49	11.09	.64	10.03 - 12.15	11.37
SLEEVE INSEAM	51	16.92	.77	15.65 - 18.19	17.51
SLEEVE OUTSEAM	52	20.46	.83	19.08 - 21.83	21.17
SHOULDER TO ELBOW	13	12.85	.47	12.07 - 13.63	13.30
WAIST BACK	47	15.71	.92	14.19 - 17.24	16.14
WAIST FRONT	48	14.90	.93	13.36 - 16.44	15.26

\* UNITS ARE INCHES OR POUNDS

TABLE 55 (cont'd)

18 SIZE UPPER BODY  
XX-LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.29	.61	15.28 - 17.30	16.71
BICEPS CIRC, FLXD	33	12.15	.64	11.09 - 13.20	12.43
BUST CIRCUMFERENCE	27	41.00	.58	40.05 - 41.95	42.00
BUST-WAIST, CIRC.	79	7.80	1.63	5.11 - 10.49	7.91
CHEST CIRC AT SCYE	26	37.90	1.02	36.21 - 39.59	38.72
CHEST C BELOW BUST	28	33.46	1.05	31.73 - 35.19	34.24
ELBOW CIRC FLXD	34	10.66	.52	9.81 - 11.52	10.95
FOREARM CIRC, FLXD	35	10.48	.46	9.72 - 11.24	10.71
HIP CIRCUMFERENCE	30	41.08	1.70	38.27 - 43.89	42.22
NECK CIRCUMFERENCE	24	13.40	.50	12.58 - 14.22	13.64
SHOULDER CIRCUMFER	25	43.44	1.23	41.41 - 45.48	44.35
VERTICAL TRUNK CIR	31	62.75	1.83	59.73 - 65.77	64.50
WAIST CIRCUMFERENC	29	33.20	1.70	30.40 - 36.00	34.09
WRIST CIRCUMFERENC	36	5.97	.22	5.61 - 6.33	6.09
***ARCS***					
BACK ARC, BUST	44	19.12	.69	17.98 - 20.26	19.55
BACK ARC, HIP	46	20.60	1.13	18.73 - 22.46	21.14
BACK ARC, WAIST	45	16.50	.88	15.04 - 17.95	16.93
INTERSCYE BACK	42	15.75	.81	14.42 - 17.09	16.04
INTERSCYE FRONT	43	13.64	.57	12.70 - 14.58	13.91
SHOULDER LENGTH	41	5.81	.39	5.16 - 6.46	5.93
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	11.07	.41	10.39 - 11.75	11.35
CHEST BREADTH	20	12.60	.39	11.95 - 13.25	12.88
HIP BREADTH	22	14.96	.76	13.72 - 16.21	15.37
SHOULDER BREADTH	23	17.99	.55	17.08 - 18.90	18.37
WAIST BREADTH	21	11.70	.67	10.59 - 12.81	12.03
WAIST DEPTH	19	8.86	.60	7.88 - 9.84	9.08

TABLE 56

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

## XX-LARGE REGULAR

THE RANGE FOR BUST CIRCUMFERENCE 40.00 - 41.99

THE RANGE FOR STATURE 64.00 - 67.99

N = 12      TARIFF PERCENTAGE = .94%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	171.11	9.87	154.83 - 187.39	181.85
***HEIGHTS***					
AXILLA HEIGHT	4	58.89	1.10	48.28 - 51.91	51.76
BUSTPOINT HEIGHT	5	47.78	1.22	45.77 - 49.79	49.37
BUTTOCK HEIGHT	8	34.22	1.23	32.19 - 36.25	35.42
CERVICALE HEIGHT	71	57.59	1.13	55.73 - 59.45	59.39
CROTCH HEIGHT	7	30.90	1.10	29.07 - 32.72	32.03
SHOULDER HEIGHT	3	54.54	1.16	52.62 - 56.46	56.35
STATURE	2	66.00	1.15	64.09 - 67.91	68.00
WAIST HEIGHT	6	41.03	1.23	39.00 - 43.06	42.44
***LENGTHS***					
ACROMION - AXILLA	72	4.45	.35	3.86 - 5.03	4.60
AXILLA TO WAIST	50	9.33	.95	7.76 - 10.91	9.55
CERVICALE-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.81	.74	8.59 - 11.03	10.02
CERVICALE-BUTTOCK	78	23.37	1.07	21.60 - 25.14	23.97
NECK TO BUSTPOINT	49	11.26	.64	10.20 - 12.32	11.54
SLEEVE INSEAM	51	18.14	.77	16.87 - 19.41	18.73
SLEEVE OUTSEAM	52	21.87	.83	20.50 - 23.25	22.59
SHOULDER TO ELBOW	13	13.71	.47	12.93 - 14.49	14.15
WAIST BACK	47	16.55	.92	15.03 - 18.07	16.98
WAIST FRONT	48	15.39	.93	13.85 - 16.93	15.74

\* UNITS ARE INCHES OR POUNDS

TABLE 56 (cont'd)

18 SIZE UPPER BODY  
XX-LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.59	.61	15.58 - 17.60	17.01
BICEPS CIRC, FLXD	33	12.20	.64	11.14 - 13.25	12.48
BUST CIRCUMFERENCE	27	41.00	.58	40.05 - 41.95	42.00
BUST-WAIST, CIRC.	79	7.72	1.63	5.83 - 18.41	7.83
CHEST CIRC AT SCYE	26	38.15	1.02	36.46 - 39.84	38.97
CHEST C BELOW BUST	28	33.69	1.05	31.96 - 35.42	34.46
ELBOW CIRC FLXD	34	11.03	.52	10.18 - 11.89	11.32
FOREARM CIRC, FLXD	35	10.66	.46	9.91 - 11.42	10.89
HIP CIRCUMFERENCE	30	42.09	1.70	39.27 - 44.90	43.23
NECK CIRCUMFERENCE	24	13.63	.50	12.81 - 14.45	13.87
SHOULDER CIRCUMFER	25	43.91	1.23	41.88 - 45.95	44.82
VERTICAL TRUNK CIR	31	65.15	1.83	62.12 - 68.17	66.90
WAIST CIRCUMFERENC	29	33.28	1.70	30.48 - 36.09	34.17
WRIST CIRCUMFERENC	36	6.12	.22	5.76 - 6.49	6.24
***ARCS***					
BACK ARC, BUST	44	19.15	.69	18.01 - 20.29	19.58
BACK ARC, HIP	46	21.01	1.13	19.15 - 22.88	21.56
BACK ARC, WAIST	45	16.53	.88	15.07 - 17.98	16.96
INTERSCYE BACK	42	16.00	.81	14.67 - 17.34	16.29
INTERSCYE FRONT	43	13.94	.57	13.80 - 14.88	14.21
SHOULDER LENGTH	41	6.05	.39	5.40 - 6.69	6.17
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.99	.41	10.31 - 11.68	11.28
CHEST BREADTH	20	12.68	.39	12.03 - 13.32	12.96
HIP BREADTH	22	15.37	.76	14.13 - 16.62	15.78
SHOULDER BREADTH	23	18.26	.55	17.34 - 19.17	18.64
WAIST BREADTH	21	11.82	.67	10.71 - 12.93	12.14
WAIST DEPTH	19	8.78	.60	7.80 - 9.77	9.00

TABLE 57

## 18 SIZE PROGRAM FOR THE UPPER BODY\*

XX-LARGE LONG

THE RANGE FOR BUST CIRCUMFERENCE 40.00 - 41.99  
 THE RANGE FOR STATURE 68.00 - 71.99

N = 1      TARIFF PERCENTAGE = .08%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	181.74	9.87	165.46 - 198.02	192.48
***HEIGHTS***					
AXILLA HEIGHT	4	53.41	1.10	51.59 - 55.22	55.07
BUSTPOINT HEIGHT	5	51.06	1.22	49.05 - 53.07	52.65
BUTTOCK HEIGHT	8	36.58	1.23	34.55 - 38.61	37.78
CERVICALE HEIGHT	71	61.88	1.13	59.22 - 62.94	62.88
CROTCH HEIGHT	7	33.25	1.10	31.43 - 35.07	34.38
SHOULDER HEIGHT	3	58.05	1.16	56.13 - 59.97	59.86
STATURE	2	70.00	1.15	68.09 - 71.91	72.00
WAIST HEIGHT	6	43.92	1.23	41.89 - 45.95	45.33
***LENGTHS***					
ACROMION - AXILLA	72	4.64	.35	4.06 - 5.22	4.79
AXILLA TO WAIST	50	9.76	.95	8.19 - 11.34	9.98
CERVICALE-ACROMION	73	3.03	.30	2.54 - 3.52	3.02
CERV. - BUSTPOINT	74	10.82	.74	8.79 - 11.24	10.23
CERVICALE-BUTTOCK	78	24.50	1.07	22.73 - 26.27	25.10
NECK TO BUSTPOINT	49	11.43	.64	10.37 - 12.49	11.71
SLEEVE INSEAM	51	19.36	.77	18.09 - 20.63	19.94
SLEEVE OUTSEAM	52	23.29	.83	21.91 - 24.66	24.00
SHOULDER TO ELBOW	13	14.56	.47	13.78 - 15.34	15.00
WAIST BACK	47	17.38	.92	15.86 - 18.90	17.81
WAIST FRONT	48	15.88	.93	14.34 - 17.42	16.23

\* UNITS ARE INCHES OR POUNDS

TABLE 57 (cont'd)

18 SIZE UPPER BODY  
XX-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ARM CIRC AT SCYE	32	16.89	.61	15.88 - 17.90	17.31
BICEPS CIRC, FLXD	33	12.25	.64	11.20 - 13.30	12.53
BUST CIRCUMFERENCE	27	41.00	.58	40.05 - 41.95	42.00
BUST-WAIST, CIRC.	79	7.64	1.63	4.95 - 10.33	7.75
CHEST CIRC AT SCYE	26	38.40	1.02	36.71 - 40.09	39.22
CHEST C BELOW BUST	28	33.91	1.05	32.18 - 35.64	34.68
ELBOW CIRC FLXD	34	11.40	.52	10.55 - 12.26	11.69
FOREARM CIRC, FLXD	35	10.84	.46	10.09 - 11.60	11.07
HIP CIRCUMFERENCE	30	43.09	1.70	40.28 - 45.90	44.24
NECK CIRCUMFERENCE	24	13.86	.50	13.03 - 14.68	14.10
SHOULDER CIRCUMFER	25	44.38	1.23	42.35 - 46.42	45.29
VERTICAL TRUNK CIR	31	67.54	1.83	64.52 - 70.57	69.30
WAIST CIRCUMFERENC	29	33.36	1.70	30.56 - 36.17	34.25
WRIST CIRCUMFERENC	36	6.28	.22	5.91 - 6.64	6.40
***ARCS***					
BACK ARC, BUST	44	19.17	.69	18.03 - 20.32	19.60
BACK ARC, HIP	46	21.42	1.13	19.56 - 23.29	21.97
BACK ARC, WAIST	45	16.56	.88	15.10 - 18.01	16.99
INTERSCYE BACK	42	16.26	.81	14.92 - 17.59	16.54
INTERSCYE FRONT	43	14.24	.57	13.30 - 15.18	14.51
SHOULDER LENGTH	41	6.28	.39	5.64 - 6.93	6.41
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.92	.41	10.24 - 11.60	11.20
CHEST BREADTH	20	12.75	.39	12.11 - 13.40	13.03
HIP BREADTH	22	15.78	.76	14.54 - 17.03	16.19
SHOULDER BREADTH	23	18.52	.55	17.61 - 19.43	18.91
WAIST BREADTH	21	11.93	.67	10.82 - 13.04	12.26
WAIST DEPTH	19	8.71	.60	7.72 - 9.69	8.93



TABLE 58

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

SMALL REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 26.50 - 29.49

N = 110      TARIFF PERCENTAGE = 9.11%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	104.80	9.41	89.27 - 120.33	117.44
***HEIGHTS***					
ANKLE HEIGHT	68	4.04	.35	3.47 - 4.62	4.23
BUTTOCK HEIGHT	8	30.69	1.04	28.98 - 32.41	32.27
CALF HEIGHT	10	11.80	.61	10.80 - 12.81	12.50
CROTCH HEIGHT	7	28.00	.87	26.57 - 29.43	29.50
KNEECAP HEIGHT	9	17.64	.63	16.61 - 18.67	18.50
SPHYRION HEIGHT	69	2.44	.21	2.10 - 2.78	2.51
STATURE	2	60.91	1.60	58.27 - 63.55	63.03
WAIST HEIGHT	6	37.49	1.29	35.36 - 39.61	39.15
***LENGTHS***					
WAIST - BUTTOCK	75	6.80	1.10	4.98 - 8.61	6.88
WAIST - CROTCH	76	9.49	.94	7.93 - 11.04	9.65
WAIST - KNEECAP	77	19.84	1.03	18.15 - 21.54	20.65
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.73	.41	7.04 - 8.41	7.92
CALF CIRCUMFERENCE	39	12.80	.72	11.61 - 14.00	13.22
HEEL/ANKLE CIRC.	63	11.46	.44	10.74 - 12.18	11.84
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.62	.59	11.65 - 13.60	13.11
UPPER THIGH CIRCUM	37	20.13	.95	18.57 - 21.69	21.04
WAIST CIRCUMFERENC	29	25.32	2.02	22.00 - 28.65	26.38
***ARCS***					
BACK ARC, HIP	46	16.92	.85	15.51 - 18.33	17.64
BACK ARC, WAIST	45	12.64	1.04	10.91 - 14.36	13.14
CROTCH LENGTH	53	26.61	1.69	23.82 - 29.41	27.52
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.66	.51	11.82 - 13.50	13.18
WAIST BREADTH	21	9.13	.75	7.90 - 10.37	9.53
WAIST DEPTH	19	6.48	.69	5.34 - 7.62	6.75

\* UNITS ARE INCHES OR POUNDS

TABLE 59

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL LONG

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 29.50 - 32.49

N = 109      TARIFF PERCENTAGE = 9.03%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	110.65	9.41	95.12 - 126.19	123.30
***HEIGHTS***					
ANKLE HEIGHT	68	4.45	.35	3.87 - 5.03	4.63
BUTTOCK HEIGHT	8	33.60	1.04	31.88 - 35.31	35.17
CALF HEIGHT	10	13.10	.61	12.09 - 14.10	13.79
CROTCH HEIGHT	7	31.00	.87	29.57 - 32.43	32.50
KNEECAP HEIGHT	9	19.28	.63	18.25 - 20.32	20.14
SPHYRION HEIGHT	69	2.54	.21	2.20 - 2.87	2.60
STATURE	2	64.52	1.60	61.88 - 67.16	66.64
WAIST HEIGHT	6	40.52	1.29	38.40 - 42.65	42.18
***LENGTHS***					
WAIST - BUTTOCK	75	6.93	1.10	5.11 - 8.75	7.01
WAIST - CROTCH	76	9.52	.94	7.97 - 11.08	9.68
WAIST - KNEECAP	77	21.24	1.03	19.54 - 22.94	22.05
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.80	.41	7.12 - 8.49	8.00
CALF CIRCUMFERENCE	39	12.78	.72	11.59 - 13.98	13.20
HEEL/ANKLE CIRC.	63	11.95	.44	11.23 - 12.68	12.34
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.80	.59	11.83 - 13.78	13.29
UPPER THIGH CIRCUM	37	19.96	.95	18.40 - 21.52	20.67
WAIST CIRCUMFERENC	29	25.14	2.02	21.81 - 28.46	26.19
***ARCS***					
BACK ARC, HIP	46	16.82	.85	15.42 - 18.23	17.54
BACK ARC, WAIST	45	12.52	1.04	10.79 - 14.24	13.01
CROTCH LENGTH	53	26.75	1.69	23.96 - 29.55	27.66
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.65	.51	11.81 - 13.49	13.17
WAIST BREADTH	21	9.16	.75	7.93 - 10.40	9.56
WAIST DEPTH	19	6.35	.69	5.20 - 7.49	6.62

\* UNITS ARE INCHES OR POUNDS

TABLE 60

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 27.00 - 29.99

N = 331 TARIFF PERCENTAGE = 27.42%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	125.21	9.41	109.68 - 140.75	137.86
***HEIGHTS***					
ANKLE HEIGHT	68	4.07	.35	3.49 - 4.65	4.25
BUTTOCK HEIGHT	8	31.42	1.04	29.71 - 33.14	33.00
CALF HEIGHT	10	12.12	.61	11.12 - 13.13	12.82
CROTCH HEIGHT	7	28.50	.87	27.07 - 29.93	30.00
KNEECAP HEIGHT	9	17.99	.63	16.96 - 19.02	18.84
SPHYRION HEIGHT	69	2.49	.21	2.15 - 2.83	2.55
STATURE	2	62.15	1.60	59.50 - 64.79	64.27
WAIST HEIGHT	6	38.28	1.29	36.15 - 40.40	39.94
***LENGTHS***					
WAIST - BUTTOCK	75	6.85	1.10	5.03 - 8.67	6.94
WAIST - CROTCH	76	9.78	.94	8.22 - 11.33	9.94
WAIST - KNEECAP	77	20.29	1.03	18.59 - 21.99	21.09
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.06	.41	7.38 - 8.74	8.26
CALF CIRCUMFERENCE	39	13.65	.72	12.46 - 14.85	14.07
HEEL/ANKLE CIRC.	63	11.81	.44	11.09 - 12.53	12.19
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.46	.59	12.48 - 14.43	13.95
UPPER THIGH CIRCUM	37	22.10	.95	20.54 - 23.66	23.01
WAIST CIRCUMFERENC	29	27.59	2.02	24.26 - 30.92	28.64
***ARCS***					
BACK ARC, HIP	46	18.44	.85	17.04 - 19.85	19.16
BACK ARC, WAIST	45	13.74	1.04	12.01 - 15.46	14.23
CROTCH LENGTH	53	29.31	1.69	25.51 - 31.10	29.21
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.72	.51	12.88 - 14.56	14.24
WAIST BREADTH	21	9.90	.75	8.67 - 11.13	10.30
WAIST DEPTH	19	7.13	.69	5.99 - 8.27	7.40

\* UNITS ARE INCHES OR POUNDS

TABLE 61

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM LONG

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 30.00 - 32.99

N = 248      TARIFF PERCENTAGE = 20.55%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	131.07	9.41	115.53 - 146.60	143.71
***HEIGHTS***					
ANKLE HEIGHT	68	4.48	.35	3.90 - 5.05	4.66
BUTTOCK HEIGHT	8	34.33	1.04	32.61 - 36.04	35.91
CALF HEIGHT	10	13.41	.61	12.41 - 14.42	14.11
CROTCH HEIGHT	7	31.50	.87	30.07 - 32.93	33.00
KNEECAP HEIGHT	9	19.63	.63	18.60 - 20.66	20.48
SPHYRION HEIGHT	69	2.58	.21	2.24 - 2.92	2.64
STATURE	2	65.75	1.60	63.11 - 68.40	67.88
WAIST HEIGHT	6	41.31	1.29	39.19 - 43.44	42.97
***LENGTHS***					
WAIST - BUTTOCK	75	6.98	1.10	5.17 - 8.80	7.07
WAIST - CROTCH	76	9.81	.94	8.26 - 11.37	9.97
WAIST - KNEECAP	77	21.69	1.03	19.99 - 23.38	22.49
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.14	.41	7.45 - 8.82	8.33
CALF CIRCUMFERENCE	39	13.63	.72	12.44 - 14.83	14.05
HEEL/ANKLE CIRC.	63	12.31	.44	11.58 - 13.03	12.69
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.64	.59	12.66 - 14.61	14.13
UPPER THIGH CIRCUM	37	21.92	.95	20.36 - 23.49	22.84
WAIST CIRCUMFERENC	29	27.40	2.02	24.07 - 30.73	28.46
***ARCS***					
BACK ARC, HIP	46	18.35	.85	16.94 - 19.75	19.07
BACK ARC, WAIST	45	13.61	1.04	11.89 - 15.34	14.11
CROTCH LENGTH	53	28.45	1.69	25.65 - 31.24	29.35
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.70	.51	12.86 - 14.54	14.23
WAIST BREADTH	21	9.93	.75	8.70 - 11.16	10.33
WAIST DEPTH	19	7.00	.69	5.86 - 8.14	7.27

\* UNITS ARE INCHES OR POUNDS

TABLE 62

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 27.50 - 30.49

N = 181      TARIFF PERCENTAGE = 15.80%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	145.62	9.41	130.09 - 161.16	158.27
***HEIGHTS***					
ANKLE HEIGHT	68	4.10	.35	3.52 - 4.67	4.28
BUTTOCK HEIGHT	8	32.16	1.04	30.44 - 33.87	33.73
CALF HEIGHT	10	12.44	.61	11.43 - 13.44	13.13
CROTCH HEIGHT	7	29.00	.87	27.57 - 30.43	30.50
KNEECAP HEIGHT	9	18.33	.63	17.30 - 19.36	19.19
SPHYRION HEIGHT	69	2.54	.21	2.20 - 2.88	2.60
STATURE	2	63.38	1.60	60.74 - 66.02	65.50
WAIST HEIGHT	6	39.07	1.29	36.94 - 41.19	40.73
***LENGTHS***					
WAIST - BUTTOCK	75	6.91	1.10	5.09 - 8.73	6.99
WAIST - CROTCH	76	10.07	.94	8.51 - 11.62	10.23
WAIST - KNEECAP	77	20.73	1.03	19.03 - 22.43	21.54
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.39	.41	7.71 - 9.07	8.59
CALF CIRCUMFERENCE	39	14.51	.72	13.31 - 15.70	14.92
HEEL/ANKLE CIRC.	63	12.16	.44	11.44 - 12.88	12.54
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.29	.59	13.32 - 15.26	14.78
UPPER THIGH CIRCUM	37	24.06	.95	22.50 - 25.63	24.98
WAIST CIRCUMFERENC	29	29.85	2.02	26.53 - 33.18	30.91
***ARCS***					
BACK ARC, HIP	46	19.97	.85	18.56 - 21.37	20.69
BACK ARC, WAIST	45	14.83	1.04	13.11 - 16.56	15.33
CROTCH LENGTH	53	30.00	1.69	27.21 - 32.79	30.90
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.77	.51	13.93 - 15.61	15.30
WAIST BREADTH	21	10.67	.75	9.43 - 11.90	11.06
WAIST DEPTH	19	7.78	.69	6.64 - 8.93	8.06

\* UNITS ARE INCHES OR POUNDS

TABLE 63

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 30.50 - 33.49

N = 166      TARIFF PERCENTAGE = 13.75%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	151.48	9.41	135.95 - 167.01	164.12
***HEIGHTS***					
ANKLE HEIGHT	68	4.50	.35	3.93 - 5.08	4.69
BUTTOCK HEIGHT	8	35.06	1.04	33.35 - 36.78	36.64
CALF HEIGHT	10	13.73	.61	12.72 - 14.73	14.42
CROTCH HEIGHT	7	32.00	.87	30.57 - 33.43	33.50
KNEECAP HEIGHT	9	19.97	.63	18.94 - 21.01	20.83
SPHYRION HEIGHT	69	2.63	.21	2.29 - 2.97	2.69
STATURE	2	66.99	1.60	64.35 - 69.63	69.11
WAIST HEIGHT	6	42.10	1.29	39.98 - 44.23	43.76
***LENGTHS***					
WAIST - BUTTOCK	75	7.04	1.10	5.22 - 8.86	7.12
WAIST - CROTCH	76	10.10	.94	8.55 - 11.66	10.26
WAIST - KNEECAP	77	22.13	1.03	20.43 - 23.83	22.93
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.47	.41	7.79 - 9.15	8.67
CALF CIRCUMFERENCE	39	14.49	.72	13.29 - 15.68	14.90
HEEL/ANKLE CIRC.	63	12.66	.44	11.94 - 13.38	13.04
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.47	.59	13.50 - 15.44	14.96
UPPER THIGH CIRCUM	37	23.89	.95	22.33 - 25.45	24.80
WAIST CIRCUMFERENC	29	29.67	2.02	26.34 - 32.99	30.72
***ARCS***					
BACK ARC, HIP	46	19.87	.85	18.46 - 21.28	20.59
BACK ARC, WAIST	45	14.71	1.04	12.99 - 16.43	15.21
CROTCH LENGTH	53	30.14	1.69	27.35 - 32.93	31.04
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.76	.51	13.92 - 15.60	15.28
WAIST BREADTH	21	10.70	.75	9.46 - 11.93	11.09
WAIST DEPTH	19	7.65	.69	6.51 - 8.80	7.92

\* UNITS ARE INCHES OR POUNDS

TABLE 64

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 28.00 - 30.99

N = 32 TARIFF PERCENTAGE = 2.65%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	166.04	9.41	150.50 - 181.57	178.68
***HEIGHTS***					
ANKLE HEIGHT	68	4.12	.35	3.55 - 4.70	4.31
BUTTOCK HEIGHT	8	32.89	1.04	31.17 - 34.61	34.47
CALF HEIGHT	10	12.75	.61	11.75 - 13.76	13.45
CROTCH HEIGHT	7	29.50	.87	28.07 - 30.93	31.00
KNEECAP HEIGHT	9	18.68	.63	17.65 - 19.71	19.53
SPHYRION HEIGHT	69	2.58	.21	2.24 - 2.92	2.65
STATURE	2	64.62	1.60	61.98 - 67.26	66.74
WAIST HEIGHT	6	39.86	1.29	37.73 - 41.98	41.52
***LENGTHS***					
WAIST - BUTTOCK	75	6.97	1.10	5.15 - 8.78	7.05
WAIST - CROTCH	76	10.36	.94	8.80 - 11.91	10.52
WAIST - KNEECAP	77	21.18	1.03	19.48 - 22.88	21.98
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.72	.41	8.04 - 9.41	8.92
CALF CIRCUMFERENCE	39	15.36	.72	14.16 - 16.55	15.77
HEEL/ANKLE CIRC.	63	12.51	.44	11.79 - 13.23	12.89
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.12	.59	14.15 - 16.10	15.61
UPPER THIGH CIRCUM	37	26.03	.95	24.47 - 27.59	26.94
WAIST CIRCUMFERENC	29	32.12	2.02	28.79 - 35.44	33.17
***ARCS***					
BACK ARC, HIP	46	21.49	.85	20.08 - 22.90	22.21
BACK ARC, WAIST	45	15.93	1.04	14.21 - 17.65	16.43
CROTCH LENGTH	53	31.69	1.69	28.90 - 34.49	32.60
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.83	.51	14.99 - 16.67	16.35
WAIST BREADTH	21	11.43	.75	10.20 - 12.66	11.83
WAIST DEPTH	19	8.44	.69	7.29 - 9.58	8.71

\* UNITS ARE INCHES OR POUNDS

TABLE 65

## 8 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 31.00 - 33.99

N = 30      TARIFF PERCENTAGE = 2.49%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	171.89	9.41	156.36 - 187.43	184.54
***HEIGHTS***					
ANKLE HEIGHT	68	4.53	.35	3.95 - 5.11	4.71
BUTTOCK HEIGHT	8	35.79	1.04	34.08 - 37.51	37.37
CALF HEIGHT	10	14.04	.61	13.04 - 15.05	14.74
CROTCH HEIGHT	7	32.50	.87	31.07 - 33.93	34.00
KNEECAP HEIGHT	9	20.32	.63	19.29 - 21.35	21.17
SPHYRION HEIGHT	69	2.67	.21	2.33 - 3.01	2.74
STATURE	2	68.23	1.60	65.58 - 70.87	70.35
WAIST HEIGHT	6	42.89	1.29	40.77 - 45.02	44.55
***LENGTHS***					
WAIST - BUTTOCK	75	7.10	1.10	5.28 - 8.92	7.18
WAIST - CROTCH	76	10.39	.94	8.84 - 11.95	10.55
WAIST - KNEECAP	77	22.57	1.03	20.88 - 24.27	23.38
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.80	.41	8.12 - 9.48	9.00
CALF CIRCUMFERENCE	39	15.34	.72	14.14 - 16.53	15.75
HEEL/ANKLE CIRC.	63	13.01	.44	12.29 - 13.73	13.39
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.30	.59	14.33 - 16.28	15.80
UPPER THIGH CIRCUM	37	25.86	.95	24.30 - 27.42	26.77
WAIST CIRCUMFERENC	29	31.93	2.02	28.60 - 35.26	32.98
***ARCS***					
BACK ARC, HIP	46	21.39	.85	19.98 - 22.80	22.11
BACK ARC, WAIST	45	15.81	1.04	14.09 - 17.53	16.31
CROTCH LENGTH	53	31.83	1.69	29.04 - 34.63	32.74
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.82	.51	14.98 - 16.66	16.34
WAIST BREADTH	21	11.46	.75	10.23 - 12.70	11.86
WAIST DEPTH	19	8.31	.69	7.16 - 9.45	8.58

\* UNITS ARE INCHES OR POUNDS



TABLE 66

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL SHORT

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 26.50 - 28.49

N = 66      TARIFF PERCENTAGE = 5.47%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	103.82	9.33	88.43 - 119.22	115.49
***HEIGHTS***					
ANKLE HEIGHT	68	3.97	.34	3.42 - 4.53	4.09
BUTTOCK HEIGHT	8	30.21	.83	28.84 - 31.58	31.30
CALF HEIGHT	10	11.59	.54	10.70 - 12.48	12.07
CROTCH HEIGHT	7	27.50	.58	26.55 - 28.45	28.50
KNEECAP HEIGHT	9	17.37	.52	16.52 - 18.22	17.95
SPHYRION HEIGHT	69	2.43	.21	2.09 - 2.77	2.48
STATURE	2	60.31	1.40	58.00 - 62.62	61.83
WAIST HEIGHT	6	36.98	1.11	35.15 - 38.81	38.13
***LENGTHS***					
WAIST - BUTTOCK	75	6.77	1.10	4.96 - 8.59	6.84
WAIST - CROTCH	76	9.48	.94	7.93 - 11.04	9.63
WAIST - KNEECAP	77	19.61	.98	17.99 - 21.24	20.18
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.71	.41	7.03 - 8.39	7.90
CALF CIRCUMFERENCE	39	12.81	.72	11.61 - 14.00	13.23
HEEL/ANKLE CIRC.	63	11.37	.42	10.68 - 12.07	11.67
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.59	.59	11.62 - 13.56	13.05
UPPER THIGH CIRCUM	37	20.16	.95	18.60 - 21.72	21.10
WAIST CIRCUMFERENC	29	25.35	2.02	22.03 - 28.68	26.44
***ARCS***					
BACK ARC, HIP	46	16.94	.85	15.53 - 18.34	17.67
BACK ARC, WAIST	45	12.66	1.04	10.93 - 14.38	13.18
CROTCH LENGTH	53	26.59	1.69	23.80 - 29.38	27.47
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.66	.51	11.82 - 13.50	13.19
WAIST BREADTH	21	9.13	.75	7.90 - 10.36	9.52
WAIST DEPTH	19	6.58	.69	5.36 - 7.64	6.79

\* UNITS ARE INCHES OR POUNDS

TABLE 67

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 28.50 - 30.49

N = 91      TARIFF PERCENTAGE = 7.54%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.73	9.33	92.33 - 123.12	119.40
***HEIGHTS***					
ANKLE HEIGHT	68	4.25	.34	3.69 - 4.81	4.36
BUTTOCK HEIGHT	8	32.14	.83	30.77 - 33.51	33.24
CALF HEIGHT	10	12.45	.54	11.56 - 13.34	12.93
CROTCH HEIGHT	7	29.50	.58	28.55 - 30.45	30.50
KNEECAP HEIGHT	9	18.46	.52	17.61 - 19.31	19.05
SPHYRION HEIGHT	69	2.49	.21	2.15 - 2.83	2.54
STATURE	2	62.71	1.40	60.40 - 65.02	64.23
WAIST HEIGHT	6	39.01	1.11	37.18 - 40.83	40.16
***LENGTHS***					
WAIST - BUTTOCK	75	6.86	1.10	5.04 - 8.68	6.92
WAIST - CROTCH	76	9.51	.94	7.95 - 11.06	9.66
WAIST - KNEECAP	77	20.54	.98	18.92 - 22.17	21.11
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.76	.41	7.08 - 8.45	7.95
CALF CIRCUMFERENCE	39	12.79	.72	11.60 - 13.99	13.21
HEEL/ANKLE CIRC.	63	11.71	.42	11.01 - 12.41	12.01
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.71	.59	11.74 - 13.68	13.17
UPPER THIGH CIRCUM	37	20.04	.95	18.48 - 21.60	20.98
WAIST CIRCUMFERENC	29	25.23	2.02	21.90 - 28.56	26.32
***ARCS***					
BACK ARC, HIP	46	16.87	.85	15.47 - 18.28	17.61
BACK ARC, WAIST	45	12.58	1.04	10.85 - 14.30	13.09
CROTCH LENGTH	53	26.68	1.69	23.89 - 29.48	27.56
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.65	.51	11.81 - 13.49	13.18
WAIST BREADTH	21	9.15	.75	7.92 - 10.38	9.54
WAIST DEPTH	19	6.41	.69	5.27 - 7.56	6.71

\* UNITS ARE INCHES OR POUNDS

TABLE 68

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL LONG

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 30.50 - 32.49

N = 62      TARIFF PERCENTAGE = 5.14%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	111.63	9.33	96.24 - 127.02	123.30
***HEIGHTS***					
ANKLE HEIGHT	68	4.52	.34	3.96 - 5.08	4.63
BUTTOCK HEIGHT	8	34.88	.83	32.71 - 35.45	35.17
CALF HEIGHT	10	13.31	.54	12.42 - 14.21	13.79
CROTCH HEIGHT	7	31.58	.58	30.55 - 32.45	32.50
KNEECAP HEIGHT	9	19.56	.52	18.70 - 20.41	20.14
SPHYRION HEIGHT	69	2.55	.21	2.21 - 2.89	2.60
STATURE	2	65.12	1.40	62.81 - 67.43	66.64
WAIST HEIGHT	6	41.03	1.11	39.20 - 42.86	42.18
***LENGTHS***					
WAIST - BUTTOCK	75	6.95	1.10	5.13 - 8.77	7.01
WAIST - CROTCH	76	9.53	.94	7.98 - 11.08	9.68
WAIST - KNEECAP	77	21.47	.98	19.85 - 23.10	22.05
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.82	.41	7.13 - 8.50	8.00
CALF CIRCUMFERENCE	39	12.78	.72	11.58 - 13.97	13.20
HEEL/ANKLE CIRC.	63	12.04	.42	11.34 - 12.74	12.34
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.83	.59	11.86 - 13.80	13.29
UPPER THIGH CIRCUM	37	19.93	.95	18.37 - 21.49	20.87
WAIST CIRCUMFERENC	29	25.11	2.02	21.78 - 28.43	26.19
***ARCS***					
BACK ARC, HIP	46	16.81	.85	15.40 - 18.21	17.54
BACK ARC, WAIST	45	12.49	1.04	10.77 - 14.22	13.01
CROTCH LENGTH	53	26.78	1.69	23.98 - 29.57	27.66
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.65	.51	11.81 - 13.49	13.17
WAIST BREADTH	21	9.17	.75	7.94 - 10.40	9.56
WAIST DEPTH	19	6.33	.69	5.18 - 7.47	6.62

\* UNITS ARE INCHES OR POUNDS

TABLE 69

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM SHORT

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 27.00 - 28.99

N = 158      TARIFF PERCENTAGE = 13.09%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	124.24	9.33	108.84 - 139.63	135.91
***HEIGHTS***					
ANKLE HEIGHT	68	4.00	.34	3.44 - 4.56	4.12
BUTTOCK HEIGHT	8	30.94	.83	29.57 - 32.31	32.03
CALF HEIGHT	10	11.91	.54	11.01 - 12.80	12.39
CROTCH HEIGHT	7	28.00	.58	27.05 - 28.95	29.00
KNEECAP HEIGHT	9	17.71	.52	16.86 - 18.57	18.30
SPHYRION HEIGHT	69	2.48	.21	2.14 - 2.81	2.52
STATURE	2	61.54	1.40	59.23 - 63.86	63.06
WAIST HEIGHT	6	37.77	1.11	35.94 - 39.60	38.92
***LENGTHS***					
WAIST - BUTTOCK	75	6.83	1.10	5.01 - 8.65	6.89
WAIST - CROTCH	76	9.77	.94	8.22 - 11.32	9.92
WAIST - KNEECAP	77	20.06	.98	18.43 - 21.68	20.63
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.05	.41	7.36 - 8.73	8.23
CALF CIRCUMFERENCE	39	13.66	.72	12.46 - 14.85	14.08
HEEL/ANKLE CIRC.	63	11.73	.42	11.03 - 12.43	12.03
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.43	.59	12.45 - 14.40	13.89
UPPER THIGH CIRCUM	37	22.13	.95	20.57 - 23.69	23.07
WAIST CIRCUMFERENC	29	27.62	2.82	24.29 - 30.95	28.70
***ARCS***					
BACK ARC, HIP	46	18.46	.85	17.05 - 19.87	19.20
BACK ARC, WAIST	45	13.76	1.04	12.03 - 15.48	14.27
CROTCH LENGTH	53	28.28	1.69	25.49 - 31.08	29.16
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.72	.51	12.88 - 14.56	14.24
WAIST BREADTH	21	9.90	.75	8.66 - 11.13	10.29
WAIST DEPTH	19	7.15	.69	6.01 - 8.30	7.45

\* UNITS ARE INCHES OR POUNDS

TABLE 70

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 29.00 - 30.99

N = 299      TARIFF PERCENTAGE = 24.77%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	128.14	9.33	112.74 - 143.53	139.81
***HEIGHTS***					
ANKLE HEIGHT	68	4.27	.34	3.71 - 4.83	4.39
BUTTOCK HEIGHT	8	32.88	.83	31.51 - 34.25	33.97
CALF HEIGHT	18	12.77	.54	11.87 - 13.66	13.25
CROTCH HEIGHT	7	30.00	.58	29.05 - 30.95	31.00
KNEECAP HEIGHT	9	18.81	.52	17.96 - 19.66	19.39
SPHYRION HEIGHT	69	2.54	.21	2.20 - 2.87	2.58
STATURE	2	63.95	1.40	61.64 - 66.26	65.47
WAIST HEIGHT	6	39.80	1.11	37.97 - 41.62	40.95
***LENGTHS***					
WAIST - BUTTOCK	75	6.92	1.10	5.10 - 8.74	6.98
WAIST - CROTCH	76	9.88	.94	8.24 - 11.35	9.95
WAIST - KNEECAP	77	20.99	.98	19.36 - 22.61	21.56
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.10	.41	7.41 - 8.78	8.28
CALF CIRCUMFERENC	39	13.64	.72	12.45 - 14.84	14.06
HEEL/ANKLE CIRC.	63	12.06	.42	11.36 - 12.76	12.36
HIP CIRCUMFERENCE	30	37.80	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.55	.59	12.57 - 14.52	14.01
UPPER THIGH CIRCUM	37	22.81	.95	20.45 - 23.57	22.95
WAIST CIRCUMFERENC	29	27.49	2.02	24.17 - 30.82	28.58
***ARCS***					
BACK ARC, HIP	46	18.39	.85	16.99 - 19.80	19.13
BACK ARC, WAIST	45	13.67	1.04	11.95 - 15.40	14.19
CROTCH LENGTH	53	28.38	1.69	25.58 - 31.17	29.26
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.71	.51	12.87 - 14.55	14.24
WAIST BREADTH	21	9.92	.75	8.68 - 11.15	10.31
WAIST DEPTH	19	7.87	.69	5.92 - 8.21	7.36

\* UNITS ARE INCHES OR POUNDS

TABLE 71

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM LONG

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 31.00 - 32.99

N = 122      TARIFF PERCENTAGE = 10.11%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.04	9.33	116.65 - 147.44	143.71
***HEIGHTS***					
ANKLE HEIGHT	68	4.55	.34	3.99 - 5.10	4.66
BUTTOCK HEIGHT	8	34.81	.83	33.44 - 36.18	35.91
CALF HEIGHT	10	13.63	.54	12.73 - 14.52	14.11
CROTCH HEIGHT	7	32.00	.58	31.05 - 32.95	33.00
KNEECAP HEIGHT	9	19.90	.52	19.05 - 20.75	20.48
SPHYRION HEIGHT	69	2.60	.21	2.26 - 2.94	2.64
STATURE	2	66.36	1.40	64.04 - 68.67	67.88
WAIST HEIGHT	6	41.82	1.11	39.99 - 43.65	42.97
***LENGTHS***					
WAIST - BUTTOCK	75	7.01	1.10	5.19 - 8.83	7.07
WAIST - CROTCH	76	9.82	.94	8.27 - 11.37	9.97
WAIST - KNEECAP	77	21.92	.98	20.29 - 23.54	22.49
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.15	.41	7.47 - 8.83	8.33
CALF CIRCUMFERENCE	39	13.63	.72	12.44 - 14.83	14.05
HEEL/ANKLE CIRC.	63	12.39	.42	11.69 - 13.09	12.69
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.67	.59	12.69 - 14.64	14.13
UPPER THIGH CIRCUM	37	21.90	.95	20.34 - 23.46	22.84
WAIST CIRCUMFERENC	29	27.37	2.02	24.84 - 30.70	28.46
***ARCS***					
BACK ARC, HIP	46	18.33	.85	16.92 - 19.74	19.07
BACK ARC, WAIST	45	13.59	1.04	11.87 - 15.32	14.11
CROTCH LENGTH	53	28.47	1.69	25.68 - 31.26	29.35
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.70	.51	12.86 - 14.54	14.23
WAIST BREADTH	21	9.94	.75	8.70 - 11.17	10.33
WAIST DEPTH	19	6.98	.69	5.84 - 8.12	7.27

\* UNITS ARE INCHES OR POUNDS

TABLE 72

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE SHORT

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 27.50 - 29.49

N = 92      TARIFF PERCENTAGE = 7.62%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	144.65	9.33	129.25 - 160.04	156.32
***HEIGHTS***					
ANKLE HEIGHT	68	4.03	.34	3.47 - 4.59	4.14
BUTTOCK HEIGHT	8	31.67	.83	30.30 - 33.04	32.77
CALF HEIGHT	10	12.22	.54	11.33 - 13.12	12.70
CROTCH HEIGHT	7	28.50	.58	27.55 - 29.45	29.50
KNEECAP HEIGHT	9	18.06	.52	17.21 - 18.91	18.64
SPHYRION HEIGHT	69	2.52	.21	2.18 - 2.86	2.57
STATURE	2	62.78	1.40	60.47 - 65.09	64.30
WAIST HEIGHT	6	38.56	1.11	36.73 - 40.39	39.71
***LENGTHS***					
WAIST - BUTTOCK	75	6.89	1.10	5.07 - 8.70	6.95
WAIST - CROTCH	76	10.06	.94	8.51 - 11.61	10.21
WAIST - KNEECAP	77	28.50	.98	18.88 - 22.13	21.07
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.38	.41	7.70 - 9.06	8.56
CALF CIRCUMFERENCE	39	14.51	.72	13.31 - 15.70	14.93
HEEL/ANKLE CIRC.	63	12.08	.42	11.38 - 12.78	12.38
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.26	.59	13.29 - 15.23	14.72
UPPER THIGH CIRCUM	37	24.09	.95	22.53 - 25.65	25.03
WAIST CIRCUMFERENC	29	29.88	2.02	26.56 - 33.21	30.97
***ARCS***					
BACK ARC, HIP	46	19.98	.85	18.57 - 21.39	20.72
BACK ARC, WAIST	45	14.85	1.84	13.13 - 16.58	15.37
CROTCH LENGTH	53	29.98	1.69	27.18 - 32.77	30.86
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.78	.51	13.94 - 15.62	15.30
WAIST BREADTH	21	10.66	.75	9.43 - 11.89	11.05
WAIST DEPTH	19	7.81	.69	6.66 - 8.95	8.10

\* UNITS ARE INCHES OR POUNDS

TABLE 73

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 29.50 - 31.49

N = 154      TARIFF PERCENTAGE = 12.76%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	148.55	9.33	133.16 - 163.95	160.22
***HEIGHTS***					
ANKLE HEIGHT	68	4.30	.34	3.74 - 4.86	4.42
BUTTOCK HEIGHT	8	33.61	.83	32.24 - 34.98	34.70
CALF HEIGHT	10	13.08	.54	12.19 - 13.98	13.56
CROTCH HEIGHT	7	30.50	.58	29.55 - 31.45	31.50
KNEECAP HEIGHT	9	19.15	.52	18.30 - 20.00	19.74
SPHYRION HEIGHT	69	2.58	.21	2.24 - 2.92	2.63
STATURE	2	65.19	1.40	62.88 - 67.50	66.71
WAIST HEIGHT	6	40.58	1.11	38.76 - 42.41	41.74
***LENGTHS***					
WAIST - BUTTOCK	75	6.98	1.10	5.16 - 8.79	7.04
WAIST - CROTCH	76	18.08	.94	8.53 - 11.64	10.24
WAIST - KNEECAP	77	21.43	.98	19.81 - 23.06	22.00
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.43	.41	7.75 - 9.11	8.62
CALF CIRCUMFERENCE	39	14.50	.72	13.30 - 15.69	14.92
HEEL/ANKLE CIRC.	63	12.41	.42	11.71 - 13.11	12.71
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.38	.59	13.41 - 15.35	14.84
UPPER THIGH CIRCUM	37	23.98	.95	22.42 - 25.54	24.92
WAIST CIRCUMFERENC	29	29.76	2.02	26.43 - 33.09	30.84
***ARCS***					
BACK ARC, HIP	46	19.92	.85	18.51 - 21.32	20.65
BACK ARC, WAIST	45	14.77	1.04	13.05 - 16.50	15.29
CROTCH LENGTH	53	38.07	1.69	27.28 - 32.86	30.95
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.77	.51	13.93 - 15.61	15.29
WAIST BREADTH	21	10.68	.75	9.45 - 11.91	11.07
WAIST DEPTH	19	7.72	.69	6.58 - 8.86	8.01

\* UNITS ARE INCHES OR POUNDS



TABLE 74

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 31.50 - 33.49

N = 101      TARIFF PERCENTAGE = 8.37%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	152.45	9.33	137.06 - 167.85	164.12
***HEIGHTS***					
ANKLE HEIGHT	68	4.57	.34	4.01 - 5.13	4.69
BUTTOCK HEIGHT	8	35.55	.83	34.17 - 36.92	36.64
CALF HEIGHT	10	13.94	.54	13.05 - 14.84	14.42
CROTCH HEIGHT	7	32.58	.58	31.55 - 33.45	33.50
KNEECAP HEIGHT	9	20.25	.52	19.39 - 21.10	20.83
SPHYRION HEIGHT	69	2.64	.21	2.31 - 2.96	2.69
STATURE	2	67.59	1.40	65.28 - 69.90	69.11
WAIST HEIGHT	6	42.61	1.11	40.78 - 44.44	43.76
***LENGTHS***					
WAIST - BUTTOCK	75	7.06	1.10	5.25 - 8.88	7.12
WAIST - CROTCH	76	10.11	.94	8.55 - 11.66	10.26
WAIST - KNEECAP	77	22.36	.98	20.74 - 23.99	22.93
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	48	8.48	.41	7.80 - 9.16	8.67
CALF CIRCUMFERENCE	39	14.48	.72	13.29 - 15.68	14.90
HEEL/ANKLE CIRC.	63	12.74	.42	12.04 - 13.44	13.04
HIP CIRCUMFERENCE	30	40.80	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.50	.59	13.53 - 15.47	14.96
UPPER THIGH CIRCUM	37	23.86	.95	22.30 - 25.42	24.80
WAIST CIRCUMFERENC	29	29.63	2.02	26.31 - 32.96	30.72
***ARCS***					
BACK ARC, HIP	46	19.85	.85	18.45 - 21.26	20.59
BACK ARC, WAIST	45	14.69	1.84	12.97 - 16.41	15.21
CROTCH LENGTH	53	30.16	1.69	27.37 - 32.96	31.04
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.76	.51	13.92 - 15.60	15.28
WAIST BREADTH	21	18.70	.75	9.47 - 11.93	11.09
WAIST DEPTH	19	7.63	.69	6.49 - 8.77	7.92

\* UNITS ARE INCHES OR POUNDS

TABLE 75

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE SHORT

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 28.00 - 29.99

N = 17      TARIFF PERCENTAGE = 1.41%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	165.06	9.33	149.67 - 180.46	176.73
***HEIGHTS***					
ANKLE HEIGHT	68	4.06	.34	3.50 - 4.61	4.17
BUTTOCK HEIGHT	8	32.41	.83	31.03 - 33.78	33.50
CALF HEIGHT	10	12.54	.54	11.64 - 13.43	13.02
CROTCH HEIGHT	7	29.00	.58	28.05 - 29.95	30.00
KNEECAP HEIGHT	9	18.40	.52	17.55 - 19.26	18.99
SPHYRION HEIGHT	69	2.57	.21	2.23 - 2.91	2.62
STATURE	2	64.02	1.40	61.71 - 66.33	65.54
WAIST HEIGHT	6	39.35	1.11	37.52 - 41.18	40.50
***LENGTHS***					
WAIST - BUTTOCK	75	6.94	1.10	5.13 - 8.76	7.00
WAIST - CROTCH	76	10.35	.94	8.79 - 11.90	10.50
WAIST - KNEECAP	77	20.95	.98	19.32 - 22.57	21.52
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.71	.41	8.03 - 9.39	8.90
CALF CIRCUMFERENCE	39	15.36	.72	14.16 - 16.55	15.78
HEEL/ANKLE CIRC.	63	12.43	.42	11.73 - 13.13	12.73
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.09	.59	14.12 - 16.06	15.55
UPPER THIGH CIRCUM	37	26.06	.95	24.50 - 27.62	27.00
WAIST CIRCUMFERENC	29	32.15	2.02	28.82 - 35.47	33.23
***ARCS***					
BACK ARC, HIP	46	21.50	.85	20.10 - 22.91	22.24
BACK ARC, WAIST	45	15.95	1.04	14.23 - 17.67	16.47
CROTCH LENGTH	53	31.67	1.69	28.88 - 34.46	32.55
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.83	.51	14.99 - 16.67	16.36
WAIST BREADTH	21	11.43	.75	10.19 - 12.66	11.82
WAIST DEPTH	19	8.46	.69	7.32 - 9.60	8.75

\* UNITS ARE INCHES OR POUNDS

TABLE 76

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 30.00 - 31.99

N = 33      TARIFF PERCENTAGE = 2.73%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	168.96	9.33	153.57 - 184.36	180.63
***HEIGHTS***					
ANKLE HEIGHT	68	4.33	.34	3.77 - 4.89	4.44
BUTTOCK HEIGHT	8	34.34	.83	32.97 - 35.71	35.43
CALF HEIGHT	10	13.40	.54	12.50 - 14.29	13.88
CROTCH HEIGHT	7	31.00	.58	30.05 - 31.95	32.00
KNEECAP HEIGHT	9	19.50	.52	18.65 - 20.35	20.08
SPHYRION HEIGHT	69	2.63	.21	2.29 - 2.97	2.68
STATURE	2	66.42	1.40	64.11 - 68.73	67.94
WAIST HEIGHT	6	41.37	1.11	39.54 - 43.20	42.53
***LENGTHS***					
WAIST - BUTTOCK	75	7.03	1.10	5.21 - 8.85	7.09
WAIST - CROTCH	76	10.37	.94	8.82 - 11.93	10.53
WAIST - KNEECAP	77	21.88	.98	20.25 - 23.50	22.45
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.76	.41	8.08 - 9.44	8.95
CALF CIRCUMFERENCE	39	15.35	.72	14.15 - 16.54	15.77
HEEL/ANKLE CIRC.	63	12.76	.42	12.06 - 13.46	13.06
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.21	.59	14.24 - 16.19	15.68
UPPER THIGH CIRCUM	37	25.95	.95	24.39 - 27.51	26.89
WAIST CIRCUMFERENC	29	32.02	2.02	28.70 - 35.35	33.11
***ARCS***					
BACK ARC, HIP	46	21.44	.85	20.03 - 22.85	22.18
BACK ARC, WAIST	45	15.87	1.04	14.15 - 17.59	16.39
CROTCH LENGTH	53	31.76	1.69	28.97 - 34.56	32.65
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.82	.51	14.98 - 16.66	16.35
WAIST BREADTH	21	11.45	.75	10.21 - 12.68	11.84
WAIST DEPTH	19	8.37	.69	7.23 - 9.51	8.66

\* UNITS ARE INCHES OR POUNDS

TABLE 77

## 12 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 32.00 - 33.99

N = 12      TARIFF PERCENTAGE = .99%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	172.87	9.33	157.47 - 188.26	184.54
***HEIGHTS***					
ANKLE HEIGHT	68	4.60	.34	4.04 - 5.16	4.71
BUTTOCK HEIGHT	8	36.28	.83	34.91 - 37.65	37.37
CALF HEIGHT	10	14.26	.54	13.36 - 15.15	14.74
CROTCH HEIGHT	7	33.00	.58	32.05 - 33.95	34.00
KNEECAP HEIGHT	9	20.59	.52	19.74 - 21.44	21.17
SPHYRION HEIGHT	69	2.69	.21	2.35 - 3.03	2.74
STATURE	2	68.83	1.40	66.52 - 71.14	70.35
WAIST HEIGHT	6	43.40	1.11	41.57 - 45.23	44.55
***LENGTHS***					
WAIST - BUTTOCK	75	7.12	1.10	5.30 - 8.94	7.18
WAIST - CROTCH	76	10.40	.94	8.84 - 11.95	10.55
WAIST - KNEECAP	77	22.81	.98	21.18 - 24.43	23.38
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.81	.41	8.13 - 9.50	9.00
CALF CIRCUMFERENCE	39	15.33	.72	14.14 - 16.53	15.75
HEEL/ANKLE CIRC.	63	13.09	.42	12.39 - 13.79	13.39
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.33	.59	14.36 - 16.31	15.80
UPPER THIGH CIRCUM	37	25.83	.95	24.27 - 27.39	26.77
WAIST CIRCUMFERENC	29	31.90	2.02	28.57 - 35.23	32.98
***ARCS***					
BACK ARC, HIP	46	21.37	.85	19.97 - 22.78	22.11
BACK ARC, WAIST	45	15.79	1.04	14.07 - 17.51	16.31
CROTCH LENGTH	53	31.86	1.69	29.06 - 34.65	32.74
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.81	.51	14.97 - 16.65	16.34
WAIST BREADTH	21	11.47	.75	10.24 - 12.70	11.56
WAIST DEPTH	19	8.28	.69	7.14 - 9.43	8.58

\* UNITS ARE INCHES OR POUNDS

TABLE 78

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## X-SMALL SHORT

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 26.00 - 27.99

N = 46      TARIFF PERCENTAGE = 3.59%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	102.85	9.33	87.45 - 118.24	114.52
***HEIGHTS***					
ANKLE HEIGHT	68	3.91	.34	3.35 - 4.46	4.02
BUTTOCK HEIGHT	8	29.72	.83	28.35 - 31.09	30.82
CALF HEIGHT	10	11.37	.54	10.48 - 12.27	11.86
CROTCH HEIGHT	7	27.00	.58	26.05 - 27.95	28.00
KNEECAP HEIGHT	9	17.10	.52	16.24 - 17.95	17.68
SPHYRION HEIGHT	69	2.41	.21	2.08 - 2.75	2.46
STATURE	2	59.71	1.40	57.40 - 62.02	61.23
WAIST HEIGHT	6	36.47	1.11	34.65 - 38.30	37.63
***LENGTHS***					
WAIST - BUTTOCK	75	6.75	1.10	4.93 - 8.57	6.81
WAIST - CROTCH	76	9.47	.94	7.92 - 11.03	9.63
WAIST - KNEECAP	77	19.38	.98	17.75 - 21.00	19.95
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.70	.41	7.02 - 8.38	7.89
CALF CIRCUMFERENCE	39	12.81	.72	11.61 - 14.00	13.23
HEEL/ANKLE CIRC.	63	11.29	.42	10.59 - 11.99	11.59
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.56	.59	11.59 - 13.53	13.02
UPPER THIGH CIRCUM	37	20.19	.95	18.63 - 21.75	21.13
WAIST CIRCUMFERENC	29	25.39	2.02	22.06 - 28.71	26.47
***ARCS***					
BACK ARC, HIP	46	16.95	.85	15.55 - 18.36	17.69
BACK ARC, WAIST	45	12.68	1.04	10.95 - 14.40	13.20
CROTCH LENGTH	53	26.57	1.69	23.77 - 29.36	27.45
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.67	.51	11.83 - 13.51	13.19
WAIST BREADTH	21	9.12	.75	7.89 - 10.36	9.51
WAIST DEPTH	19	6.52	.69	5.38 - 7.66	6.82

\* UNITS ARE INCHES OR POUNDS

TABLE 79

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## X-SMALL REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 28.00 - 29.99

N = 95      TARIFF PERCENTAGE = 7.42%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	106.75	9.33	91.36 - 122.14	118.42
***HEIGHTS***					
ANKLE HEIGHT	68	4.18	.34	3.62 - 4.74	4.29
BUTTOCK HEIGHT	8	31.66	.83	30.29 - 33.03	32.75
CALF HEIGHT	10	12.24	.54	11.34 - 13.13	12.72
CROTCH HEIGHT	7	29.00	.58	28.05 - 29.95	30.00
KNEECAP HEIGHT	9	18.19	.52	17.34 - 19.04	18.77
SPHYRION HEIGHT	69	2.47	.21	2.14 - 2.81	2.52
STATURE	2	62.11	1.40	59.80 - 64.42	63.63
WAIST HEIGHT	6	38.50	1.11	36.67 - 40.33	39.65
***LENGTHS***					
WAIST - BUTTOCK	75	6.84	1.10	5.02 - 8.66	6.90
WAIST - CROTCH	76	9.50	.94	7.95 - 11.05	9.65
WAIST - KNEECAP	77	20.31	.98	18.69 - 21.94	20.88
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.75	.41	7.07 - 8.43	7.94
CALF CIRCUMFERENCE	39	12.80	.72	11.60 - 13.99	13.22
HEEL/ANKLE CIRC.	63	11.62	.42	10.92 - 12.32	11.92
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.68	.59	11.71 - 13.65	13.14
UPPER THIGH CIRCUM	37	20.07	.95	18.51 - 21.63	21.01
WAIST CIRCUMFERENC	29	25.26	2.02	21.93 - 28.59	26.35
***ARCS***					
BACK ARC, HIP	46	16.89	.85	15.48 - 18.30	17.63
BACK ARC, WAIST	45	12.60	1.04	10.87 - 14.32	13.11
CROTCH LENGTH	53	26.66	1.69	23.87 - 29.45	27.54
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.66	.51	11.82 - 13.50	13.18
WAIST BREADTH	21	9.14	.75	7.91 - 10.38	9.54
WAIST DEPTH	19	6.43	.69	5.29 - 7.58	6.73

\* UNITS ARE INCHES OR POUNDS

TABLE 80

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

X-SMALL LONG

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 30.00 - 31.99

N = 74      TARIFF PERCENTAGE = 5.78%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	110.65	9.33	95.26 - 126.05	122.32
***HEIGHTS***					
ANKLE HEIGHT	68	4.45	.34	3.89 - 5.01	4.57
BUTTOCK HEIGHT	8	33.60	.83	32.22 - 34.97	34.69
CALF HEIGHT	10	13.10	.54	12.20 - 13.99	13.58
CROTCH HEIGHT	7	31.00	.58	30.05 - 31.95	32.00
KNEECAP HEIGHT	9	19.28	.52	18.43 - 20.14	19.87
SPHYRION HEIGHT	69	2.54	.21	2.20 - 2.87	2.58
STATURE	2	64.52	1.40	62.21 - 66.83	66.04
WAIST HEIGHT	6	40.52	1.11	38.70 - 42.35	41.68
***LENGTHS***					
WAIST - BUTTOCK	75	6.93	1.10	5.11 - 8.75	6.99
WAIST - CROTCH	76	9.52	.94	7.97 - 11.08	9.68
WAIST - KNEECAP	77	21.24	.98	19.62 - 22.87	21.81
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.80	.41	7.12 - 8.48	7.99
CALF CIRCUMFERENCE	39	12.78	.72	11.59 - 13.98	13.20
HEEL/ANKLE CIRC.	63	11.95	.42	11.26 - 12.65	12.25
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.80	.59	11.83 - 13.77	13.26
UPPER THIGH CIRCUM	37	19.96	.95	18.40 - 21.52	20.90
WAIST CIRCUMFERENC	29	25.14	2.02	21.81 - 28.46	26.22
***ARCS***					
BACK ARC, HIP	46	16.82	.85	15.42 - 18.23	17.56
BACK ARC, WAIST	45	12.52	1.04	10.79 - 14.24	13.03
CROTCH LENGTH	53	26.75	1.69	23.96 - 29.55	27.63
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.65	.51	11.81 - 13.49	13.17
WAIST BREADTH	21	9.16	.75	7.93 - 10.40	9.56
WAIST DEPTH	19	6.35	.69	5.21 - 7.49	6.64

\* UNITS ARE INCHES OR POUNDS

TABLE 81

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

X-SMALL X-LONG

THE RANGE FOR HIP CIRCUMFERENCE 32.50 - 35.49  
 THE RANGE FOR CROTCH HEIGHT 32.00 - 33.99

N = 17      TARIFF PERCENTAGE = 1.33%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	114.56	9.33	99.16 - 129.95	126.23
***HEIGHTS***					
ANKLE HEIGHT	68	4.72	.34	4.16 - 5.28	4.84
BUTTOCK HEIGHT	8	35.53	.83	34.16 - 36.90	36.62
CALF HEIGHT	10	13.96	.54	13.06 - 14.85	14.44
CROTCH HEIGHT	7	33.00	.58	32.05 - 33.95	34.00
KNEECAP HEIGHT	9	20.38	.52	19.52 - 21.23	20.96
SPHYRION HEIGHT	69	2.60	.21	2.26 - 2.93	2.64
STATURE	2	66.92	1.40	64.61 - 69.23	68.44
WAIST HEIGHT	6	42.55	1.11	40.72 - 44.38	43.70
***LENGTHS***					
WAIST - BUTTOCK	75	7.02	1.10	5.20 - 8.83	7.08
WAIST - CROTCH	76	9.55	.94	7.99 - 11.10	9.70
WAIST - KNEECAP	77	22.17	.98	20.55 - 23.80	22.74
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.85	.41	7.17 - 8.54	8.04
CALF CIRCUMFERENCE	39	12.77	.72	11.57 - 13.97	13.19
HEEL/ANKLE CIRC.	63	12.29	.42	11.59 - 12.99	12.59
HIP CIRCUMFERENCE	30	34.00	.87	32.57 - 35.43	35.50
KNEE CIRCUMFERENCE	38	12.92	.59	11.95 - 13.89	13.38
UPPER THIGH CIRCUM	37	19.84	.95	18.28 - 21.40	20.78
WAIST CIRCUMFERENC	29	25.01	2.02	21.69 - 28.34	26.10
***ARCS***					
BACK ARC, HIP	46	16.76	.85	15.35 - 18.17	17.50
BACK ARC, WAIST	45	12.43	1.04	10.71 - 14.16	12.95
CROTCH LENGTH	53	26.84	1.89	24.05 - 29.64	27.73
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	12.64	.51	11.80 - 13.48	13.16
WAIST BREADTH	21	9.19	.75	7.95 - 10.42	9.58
WAIST DEPTH	19	6.26	.69	5.12 - 7.40	6.55

\* UNITS ARE INCHES OR POUNDS



TABLE 62

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL SHORT

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 26.50 - 28.49

N = 100      TARIFF PERCENTAGE = 7.81%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	123.26	9.33	107.87 - 138.65	134.93
***HEIGHTS***					
ANKLE HEIGHT	68	3.93	.34	3.37 - 4.49	4.05
BUTTOCK HEIGHT	8	30.46	.83	29.09 - 31.83	31.55
CALF HEIGHT	10	11.69	.54	10.80 - 12.58	12.17
CROTCH HEIGHT	7	27.50	.58	26.55 - 28.45	28.50
KNEECAP HEIGHT	9	17.44	.52	16.59 - 18.29	18.02
SPHYRION HEIGHT	69	2.46	.21	2.12 - 2.80	2.51
STATURE	2	68.94	1.40	58.63 - 63.25	62.46
WAIST HEIGHT	6	37.26	1.11	35.43 - 39.09	38.42
***LENGTHS***					
WAIST - BUTTOCK	75	6.81	1.10	4.99 - 8.63	6.87
WAIST - CROTCH	76	9.76	.94	8.21 - 11.32	9.92
WAIST - KNEECAP	77	19.82	.98	18.20 - 21.45	20.39
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.83	.41	7.35 - 8.71	8.22
CALF CIRCUMFERENCE	39	13.66	.72	12.46 - 14.86	14.08
HEEL/ANKLE CIRC.	63	11.64	.42	10.94 - 12.34	11.94
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.40	.59	12.42 - 14.37	13.86
UPPER THIGH CIRCUM	37	22.15	.95	20.59 - 23.71	23.09
WAIST CIRCUMFERENC	29	27.65	2.02	24.32 - 30.98	28.74
***ARCS***					
BACK ARC, HIP	46	18.48	.85	17.07 - 19.88	19.21
BACK ARC, WAIST	45	13.78	1.04	12.05 - 15.50	14.29
CROTCH LENGTH	53	28.26	1.69	25.47 - 31.05	29.14
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.72	.51	12.88 - 14.56	14.25
WAIST BREADTH	21	9.89	.75	8.66 - 11.12	10.28
WAIST DEPTH	19	7.17	.69	6.03 - 8.32	7.47

\* UNITS ARE INCHES OR POUNDS

TABLE 83

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 28.50 - 30.49

N = 320      TARIFF PERCENTAGE = 25.00%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	127.16	9.33	111.77 - 142.56	138.83
***HEIGHTS***					
ANKLE HEIGHT	68	4.21	.34	3.65 - 4.76	4.32
BUTTOCK HEIGHT	8	32.39	.83	31.02 - 33.76	33.48
CALF HEIGHT	10	12.55	.54	11.66 - 13.45	13.03
CROTCH HEIGHT	7	29.50	.58	28.55 - 30.45	30.50
KNEECAP HEIGHT	9	18.53	.52	17.68 - 19.39	19.12
SPHYRION HEIGHT	69	2.52	.21	2.18 - 2.86	2.57
STATURE	2	63.35	1.40	61.04 - 65.66	64.87
WAIST HEIGHT	6	39.29	1.11	37.46 - 41.12	40.44
***LENGTHS***					
WAIST - BUTTOCK	75	6.90	1.10	5.08 - 8.71	6.96
WAIST - CROTCH	76	9.79	.94	8.23 - 11.34	9.94
WAIST - KNEECAP	77	20.75	.98	19.13 - 22.38	21.33
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.08	.41	7.40 - 8.77	8.27
CALF CIRCUMFERENCE	39	13.65	.72	12.45 - 14.84	14.07
HEEL/ANKLE CIRC.	63	11.97	.42	11.28 - 12.67	12.27
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.52	.59	12.54 - 14.49	13.98
UPPER THIGH CIRCUM	37	22.04	.95	20.48 - 23.60	22.98
WAIST CIRCUMFERENC	29	27.53	2.02	24.28 - 30.85	28.61
***ARCS***					
BACK ARC, HIP	46	18.41	.85	17.00 - 19.82	19.15
BACK ARC, WAIST	45	13.69	1.04	11.97 - 15.42	14.21
CROTCH LENGTH	53	28.35	1.69	25.56 - 31.15	29.23
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.71	.51	12.87 - 14.55	14.24
WAIST BREADTH	21	9.91	.75	8.68 - 11.14	10.30
WAIST DEPTH	19	7.89	.69	5.95 - 8.23	7.38

\* UNITS ARE INCHES OR POUNDS

TABLE 84

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL LONG

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 30.50 - 32.49

N = 153      TARIFF PERCENTAGE = 11.95%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	131.07	9.33	115.67 - 146.46	142.74
***HEIGHTS***					
ANKLE HEIGHT	68	4.48	.34	3.92 - 5.04	4.59
BUTTOCK HEIGHT	8	34.33	.83	32.96 - 35.70	35.42
CALF HEIGHT	10	13.41	.54	12.52 - 14.31	13.89
CROTCH HEIGHT	7	31.50	.58	30.55 - 32.45	32.50
KNEECAP HEIGHT	9	19.63	.52	18.78 - 20.48	20.21
SPHYRION HEIGHT	69	2.58	.21	2.24 - 2.92	2.63
STATURE	2	65.75	1.40	63.44 - 68.06	67.27
WAIST HEIGHT	6	41.31	1.11	39.48 - 43.14	42.47
***LENGTHS***					
WAIST - BUTTOCK	75	6.98	1.10	5.17 - 8.80	7.05
WAIST - CROTCH	76	9.81	.94	8.26 - 11.37	9.97
WAIST - KNEECAP	77	21.69	.98	20.06 - 23.31	22.26
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.14	.41	7.45 - 8.82	8.32
CALF CIRCUMFERENCE	39	13.63	.72	12.44 - 14.83	14.06
HEEL/ANKLE CIRC.	63	12.31	.42	11.61 - 13.01	12.61
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.64	.59	12.66 - 14.61	14.10
UPPER THIGH CIRCUM	37	21.92	.95	20.36 - 23.48	22.67
WAIST CIRCUMFERENC	29	27.40	2.02	24.07 - 30.73	28.49
***ARCS***					
BACK ARC, HIP	46	18.35	.85	16.94 - 19.75	19.08
BACK ARC, WAIST	45	13.61	1.04	11.89 - 15.34	14.13
CROTCH LENGTH	53	28.45	1.69	25.65 - 31.24	29.33
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.70	.51	12.86 - 14.54	14.23
WAIST BREADTH	21	9.93	.75	8.70 - 11.16	10.32
WAIST DEPTH	19	7.00	.69	5.86 - 8.14	7.29

\* UNITS ARE INCHES OR POUNDS

TABLE 85

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## SMALL X-LONG

THE RANGE FOR HIP CIRCUMFERENCE 35.50 - 38.49  
 THE RANGE FOR CROTCH HEIGHT 32.50 - 34.49

N = 41      TARIFF PERCENTAGE = 3.20%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	134.97	9.33	119.58 - 150.36	146.64
***HEIGHTS***					
ANKLE HEIGHT	68	4.75	.34	4.19 - 5.31	4.87
BUTTOCK HEIGHT	8	36.27	.83	34.89 - 37.64	37.36
CALF HEIGHT	10	14.27	.54	13.38 - 15.17	14.75
CROTCH HEIGHT	7	33.50	.58	32.55 - 34.45	34.50
KNEECAP HEIGHT	9	20.72	.52	19.87 - 21.57	21.30
SPHYRION HEIGHT	69	2.64	.21	2.30 - 2.98	2.69
STATURE	2	68.16	1.40	65.85 - 70.47	69.68
WAIST HEIGHT	6	43.34	1.11	41.51 - 45.17	44.49
***LENGTHS***					
WAIST - BUTTOCK	75	7.07	1.10	5.26 - 8.89	7.13
WAIST - CROTCH	76	9.84	.94	8.28 - 11.39	9.99
WAIST - KNEECAP	77	22.62	.98	20.99 - 24.24	23.19
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.19	.41	7.50 - 8.87	8.37
CALF CIRCUMFERENCE	39	13.62	.72	12.43 - 14.82	14.04
HEEL/ANKLE CIRC.	63	12.64	.42	11.94 - 13.34	12.94
HIP CIRCUMFERENCE	30	37.00	.87	35.57 - 38.43	38.50
KNEE CIRCUMFERENCE	38	13.76	.59	12.78 - 14.73	14.22
UPPER THIGH CIRCUM	37	21.81	.95	20.25 - 23.37	22.75
WAIST CIRCUMFERENC	29	27.28	2.02	23.95 - 30.60	26.36
***ARCS***					
BACK ARC, HIP	46	18.28	.85	16.87 - 19.69	19.02
BACK ARC, WAIST	45	13.53	1.04	11.81 - 15.25	14.05
CROTCH LENGTH	53	28.54	1.69	25.75 - 31.33	29.42
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	13.70	.51	12.86 - 14.54	14.22
WAIST BREADTH	21	9.95	.75	8.72 - 11.18	10.34
WAIST DEPTH	19	6.91	.69	5.77 - 8.06	7.21

\* UNITS ARE INCHES OR POUNDS

TABLE 86

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM SHORT

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 27.00 - 28.99

N = 67      TARIFF PERCENTAGE = 5.23%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	143.67	9.33	128.28 - 159.07	155.34
***HEIGHTS***					
ANKLE HEIGHT	68	3.96	.34	3.40 - 4.57	4.08
BUTTOCK HEIGHT	8	31.19	.83	29.82 - 32.56	32.28
CALF HEIGHT	10	12.01	.54	11.11 - 12.90	12.49
CROTCH HEIGHT	7	28.00	.58	27.05 - 28.95	29.00
KNEECAP HEIGHT	9	17.79	.52	16.93 - 18.64	18.37
SPHYRION HEIGHT	69	2.51	.21	2.17 - 2.85	2.55
STATURE	2	62.18	1.40	59.87 - 64.49	63.70
WAIST HEIGHT	6	38.05	1.11	36.22 - 39.88	39.21
***LENGTHS***					
WAIST - BUTTOCK	75	6.86	1.10	5.05 - 8.68	6.93
WAIST - CROTCH	76	10.05	.94	8.50 - 11.61	10.21
WAIST - KNEECAP	77	20.27	.98	18.64 - 21.89	20.84
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.37	.41	7.68 - 9.05	8.55
CALF CIRCUMFERENCE	39	14.51	.72	13.32 - 15.71	14.93
HEEL/ANKLE CIRC.	63	11.99	.42	11.29 - 12.69	12.29
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.23	.59	13.26 - 15.20	14.69
UPPER THIGH CIRCUM	37	24.12	.95	22.56 - 25.68	25.06
WAIST CIRCUMFERENC	29	29.91	2.02	26.59 - 33.24	31.00
***ARCS***					
BACK ARC, HIP	46	20.00	.85	18.59 - 21.40	20.73
BACK ARC, WAIST	45	14.87	1.04	13.15 - 16.60	15.39
CROTCH LENGTH	53	29.95	1.69	27.16 - 32.75	30.84
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.78	.51	13.94 - 15.62	15.30
WAIST BREADTH	21	10.66	.75	9.42 - 11.89	11.05
WAIST DEPTH	19	7.83	.69	6.69 - 8.97	8.12

\* UNITS ARE INCHES OR POUNDS

TABLE 87

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 29.00 - 30.99

N = 155      TARIFF PERCENTAGE = 12.11%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	147.58	9.33	132.18 - 162.97	159.25
***HEIGHTS***					
ANKLE HEIGHT	68	4.23	.34	3.67 - 4.79	4.35
BUTTOCK HEIGHT	8	33.13	.83	31.75 - 34.50	34.22
CALF HEIGHT	10	12.87	.54	11.97 - 13.76	13.35
CROTCH HEIGHT	7	30.00	.58	29.05 - 30.95	31.00
KNEECAP HEIGHT	9	18.88	.52	18.03 - 19.73	19.46
SPHYRION HEIGHT	69	2.57	.21	2.23 - 2.91	2.61
STATURE	2	64.59	1.40	62.27 - 66.90	66.11
WAIST HEIGHT	6	40.08	1.11	38.25 - 41.91	41.23
***LENGTHS***					
WAIST - BUTTOCK	75	6.95	1.10	5.13 - 8.77	7.01
WAIST - CROTCH	76	10.88	.94	8.52 - 11.63	10.23
WAIST - KNEECAP	77	21.20	.98	19.57 - 22.82	21.77
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.42	.41	7.73 - 9.18	8.60
CALF CIRCUMFERENCE	39	14.50	.72	13.30 - 15.69	14.92
HEEL/ANKLE CIRC.	63	12.33	.42	11.63 - 13.02	12.63
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.35	.59	13.38 - 15.32	14.81
UPPER THIGH CIRCUM	37	24.01	.95	22.45 - 25.57	24.95
WAIST CIRCUMFERENC	29	29.79	2.02	26.46 - 33.12	30.88
***ARCS***					
BACK ARC, HIP	46	19.93	.85	18.53 - 21.34	20.67
BACK ARC, WAIST	45	14.79	1.04	13.07 - 16.52	15.31
CROTCH LENGTH	53	30.05	1.69	27.25 - 32.84	30.93
***JEPTHS AND BREADTHS***					
HIP BREADTH	22	14.77	.51	13.93 - 15.61	15.29
WAIST BREADTH	21	10.68	.75	9.44 - 11.91	11.07
WAIST DEPTH	19	7.74	.69	6.60 - 8.88	8.03

\* UNITS ARE INCHES OR POUNDS

TABLE 88

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM LONG

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 31.00 - 32.99

N = 120      TARIFF PERCENTAGE = 9.38%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	151.48	9.33	136.08 - 166.87	163.15
***HEIGHTS***					
ANKLE HEIGHT	68	4.50	.34	3.95 - 5.06	4.62
BUTTOCK HEIGHT	8	35.06	.83	33.69 - 36.43	36.15
CALF HEIGHT	10	13.73	.54	12.83 - 14.62	14.21
CROTCH HEIGHT	7	32.00	.58	31.05 - 32.95	33.00
KNEECAP HEIGHT	9	19.97	.52	19.12 - 20.82	20.56
SPHYRION HEIGHT	69	2.63	.21	2.29 - 2.97	2.67
STATURE	2	66.99	1.40	64.68 - 69.30	68.51
WAIST HEIGHT	6	42.10	1.11	40.27 - 43.93	43.26
***LENGTHS***					
WAIST - BUTTOCK	75	7.04	1.10	5.22 - 8.86	7.10
WAIST - CROTCH	76	10.10	.94	8.55 - 11.66	10.26
WAIST - KNEECAP	77	22.13	.98	20.50 - 23.75	22.70
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.47	.41	7.79 - 9.15	8.65
CALF CIRCUMFERENCE	39	14.49	.72	13.29 - 15.68	14.91
HEEL/ANKLE CIRC.	63	12.66	.42	11.96 - 13.36	12.96
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.47	.59	13.50 - 15.44	14.93
UPPER THIGH CIRCUM	37	23.89	.95	22.33 - 25.45	24.83
WAIST CIRCUMFERENC	29	29.67	2.02	26.34 - 32.99	30.75
***ARCS***					
BACK ARC, HIP	46	19.87	.65	18.46 - 21.28	20.61
BACK ARC, WAIST	45	14.71	1.04	12.99 - 16.43	15.23
CROTCH LENGTH	53	30.14	1.69	27.35 - 32.93	31.02
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.76	.51	13.92 - 15.60	15.29
WAIST BREADTH	21	10.70	.75	9.46 - 11.93	11.09
WAIST DEPTH	19	7.65	.69	6.51 - 8.80	7.95

\* UNITS ARE INCHES OR POUNDS

TABLE 89

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## MEDIUM X-LONG

THE RANGE FOR HIP CIRCUMFERENCE 38.50 - 41.49  
 THE RANGE FOR CROTCH HEIGHT 33.00 - 34.99

N = 20 TARIFF PERCENTAGE = 1.56%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	155.38	9.33	139.99 - 170.78	167.05
***HEIGHTS***					
ANKLE HEIGHT	66	4.78	.34	4.22 - 5.34	4.89
BUTTOCK HEIGHT	8	37.00	.83	35.63 - 38.37	38.09
CALF HEIGHT	18	14.59	.54	13.69 - 15.48	15.07
CROTCH HEIGHT	7	34.00	.58	33.05 - 34.95	35.00
KNEECAP HEIGHT	9	21.07	.52	20.21 - 21.92	21.65
SPHYRION HEIGHT	69	2.69	.21	2.35 - 3.03	2.73
STATURE	2	69.40	1.40	67.08 - 71.71	70.92
WAIST HEIGHT	6	44.13	1.11	42.30 - 45.96	45.28
***LENGTHS***					
WAIST - BUTTOCK	75	7.13	1.10	5.31 - 8.95	7.19
WAIST - CROTCH	76	10.13	.94	8.57 - 11.68	10.28
WAIST - KNEECAP	77	23.06	.98	21.44 - 24.69	23.63
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.52	.41	7.84 - 9.20	8.71
CALF CIRCUMFERENCE	39	14.47	.72	13.28 - 15.67	14.89
HEEL/ANKLE CIRC.	63	12.99	.42	12.29 - 13.69	13.29
HIP CIRCUMFERENCE	30	40.00	.87	38.57 - 41.43	41.50
KNEE CIRCUMFERENCE	38	14.59	.59	13.62 - 15.56	15.05
UPPER THIGH CIRCUM	37	23.78	.95	22.22 - 25.34	24.72
WAIST CIRCUMFERENC	29	29.54	2.02	26.21 - 32.87	30.63
***ARCS***					
BACK ARC, HIP	46	19.80	.85	18.40 - 21.21	20.54
BACK ARC, WAIST	45	14.63	1.04	12.91 - 16.35	15.15
CROTCH LENGTH	53	30.23	1.69	27.44 - 33.03	31.11
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	14.75	.51	13.91 - 15.59	15.28
WAIST BREADTH	21	10.72	.75	9.48 - 11.95	11.11
WAIST DEPTH	19	7.57	.69	6.42 - 8.71	7.86

\* UNITS ARE INCHES OR POUNDS



TABLE 90

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE SHORT

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 27.50 - 29.49

N = 14      TARIFF PERCENTAGE = 1.09%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	164.09	9.33	148.69 - 179.48	175.76
***HEIGHTS***					
ANKLE HEIGHT	68	3.99	.34	3.43 - 4.55	4.10
BUTTOCK HEIGHT	8	31.92	.83	30.55 - 33.29	33.01
CALF HEIGHT	10	12.32	.54	11.43 - 13.22	12.80
CROTCH HEIGHT	7	28.50	.58	27.55 - 29.45	29.50
KNEECAP HEIGHT	9	18.13	.52	17.28 - 18.98	18.71
SPHYRION HEIGHT	69	2.55	.21	2.22 - 2.89	2.60
STATURE	2	63.42	1.40	61.11 - 65.73	64.94
WAIST HEIGHT	6	38.84	1.11	37.01 - 40.67	40.00
***LENGTHS***					
WAIST - BUTTOCK	75	6.92	1.10	5.10 - 8.74	6.98
WAIST - CROTCH	76	10.34	.94	8.79 - 11.90	10.50
WAIST - KNEECAP	77	20.71	.98	19.09 - 22.34	21.28
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.70	.41	8.02 - 9.38	8.88
CALF CIRCUMFERENCE	39	15.36	.72	14.17 - 16.56	15.78
HEEL/ANKLE CIRC.	63	12.35	.42	11.65 - 13.04	12.65
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.06	.59	14.09 - 16.03	15.52
UPPER THIGH CIRCUM	37	26.09	.95	24.53 - 27.65	27.03
WAIST CIRCUMFERENC	29	32.18	2.02	28.85 - 35.51	33.26
***ARCS***					
BACK ARC, HIP	46	21.52	.85	20.11 - 22.93	22.26
BACK ARC, WAIST	45	15.97	1.04	14.25 - 17.69	16.49
CROTCH LENGTH	53	31.65	1.69	28.85 - 34.44	32.53
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.83	.51	14.99 - 16.67	16.36
WAIST BREADTH	21	11.42	.75	10.19 - 12.65	11.81
WAIST DEPTH	19	8.48	.69	7.34 - 9.62	8.77

\* UNITS ARE INCHES OR POUNDS

TABLE 91

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 29.50 - 31.49

N = 29      TARIFF PERCENTAGE = 2.27%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	167.99	9.33	152.59 - 183.38	179.66
***HEIGHTS***					
ANKLE HEIGHT	68	4.26	.34	3.78 - 4.82	4.37
BUTTOCK HEIGHT	8	33.86	.83	32.49 - 35.23	34.95
CALF HEIGHT	18	13.18	.54	12.29 - 14.08	13.66
CROTCH HEIGHT	7	30.58	.58	29.55 - 31.45	31.50
KNEECAP HEIGHT	9	19.22	.52	18.37 - 20.08	19.81
SPHYRION HEIGHT	69	2.61	.21	2.28 - 2.95	2.66
STATURE	2	65.82	1.40	63.51 - 68.13	67.34
WAIST HEIGHT	6	40.87	1.11	39.04 - 42.70	42.02
***LENGTHS***					
WAIST - BUTTOCK	75	7.01	1.10	5.19 - 8.83	7.07
WAIST - CROTCH	76	10.37	.94	8.81 - 11.92	10.52
WAIST - KNEECAP	77	21.64	.98	20.02 - 23.27	22.21
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	48	8.75	.41	8.07 - 9.43	8.94
CALF CIRCUMFERENCE	39	15.35	.72	14.15 - 16.55	15.77
HEEL/ANKLE CIRC.	63	12.68	.42	11.98 - 13.38	12.98
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.18	.59	14.21 - 16.16	15.64
UPPER THIGH CIRCUM	37	25.97	.95	24.41 - 27.53	26.91
WAIST CIRCUMFERENC	29	32.85	2.02	28.73 - 35.38	33.14
***ARCS***					
BACK ARC, HIP	46	21.46	.85	20.05 - 22.86	22.19
BACK ARC, WAIST	45	15.89	1.04	14.17 - 17.61	16.41
CROTCH LENGTH	53	31.74	1.69	28.95 - 34.53	32.52
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.83	.51	14.99 - 16.67	16.35
WAIST BREADTH	21	11.44	.75	10.21 - 12.68	11.83
WAIST DEPTH	19	8.39	.69	7.25 - 9.53	8.69

\* UNITS ARE INCHES OR POUNDS

TABLE 92

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 31.50 - 33.49

N = 19      TARIFF PERCENTAGE = 1.48%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	171.89	9.33	156.50 - 187.29	183.56
***HEIGHTS***					
ANKLE HEIGHT	68	4.53	.34	3.97 - 5.09	4.65
BUTTOCK HEIGHT	8	35.79	.83	34.42 - 37.17	36.89
CALF HEIGHT	10	14.04	.54	13.15 - 14.94	14.52
CROTCH HEIGHT	7	32.50	.58	31.55 - 33.45	33.50
KNEECAP HEIGHT	9	20.32	.52	19.47 - 21.17	20.90
SPHYRION HEIGHT	69	2.67	.21	2.34 - 3.01	2.72
STATURE	2	68.23	1.40	65.92 - 70.54	69.75
WAIST HEIGHT	6	42.89	1.11	41.86 - 44.72	44.05
***LENGTHS***					
WAIST - BUTTOCK	75	7.10	1.10	5.28 - 8.92	7.16
WAIST - CROTCH	76	10.39	.94	8.84 - 11.95	10.55
WAIST - KNEECAP	77	22.57	.98	20.95 - 24.20	23.15
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.80	.41	8.12 - 9.48	8.99
CALF CIRCUMFERENCE	39	15.34	.72	14.14 - 16.53	15.76
HEEL/ANKLE CIRC.	63	13.01	.42	12.31 - 13.71	13.31
HIP CIRCUMFERENCE	30	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.30	.59	14.33 - 16.28	15.77
UPPER THIGH CIRCUM	37	25.86	.95	24.30 - 27.42	26.80
WAIST CIRCUMFERENC	29	31.93	2.02	28.60 - 35.26	33.82
***ARCS***					
BACK ARC, HIP	46	21.39	.85	19.98 - 22.80	22.13
BACK ARC, WAIST	45	15.81	1.04	14.89 - 17.53	16.33
CROTCH LENGTH	53	31.83	1.69	29.04 - 34.63	32.72
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.82	.51	14.98 - 16.66	16.34
WAIST BREADTH	21	11.46	.75	10.23 - 12.70	11.85
WAIST DEPTH	19	8.31	.69	7.16 - 9.45	8.60

\* UNITS ARE INCHES OR POUNDS

TABLE 93

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## LARGE X-LONG

THE RANGE FOR HIP CIRCUMFERENCE 41.50 - 44.49  
 THE RANGE FOR CROTCH HEIGHT 33.50 - 35.49

N = 4 TARIFF PERCENTAGE = .31%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	175.79	9.33	160.40 - 191.19	187.46
***HEIGHTS***					
ANKLE HEIGHT	68	4.80	.34	4.24 - 5.36	4.92
BUTTOCK HEIGHT	8	37.73	.83	36.36 - 39.10	38.82
CALF HEIGHT	10	14.90	.54	14.01 - 15.80	15.38
CROTCH HEIGHT	7	34.50	.58	33.55 - 35.45	35.58
KNEECAP HEIGHT	9	21.41	.52	20.56 - 22.26	21.99
SPHYRION HEIGHT	69	2.74	.21	2.40 - 3.07	2.78
STATURE	2	70.63	1.40	68.32 - 72.94	72.15
WAIST HEIGHT	6	44.92	1.11	43.09 - 46.75	46.07
***LENGTHS***					
WAIST - BUTTOCK	75	7.19	1.10	5.37 - 9.00	7.25
WAIST - CROTCH	76	10.42	.94	8.86 - 11.97	10.57
WAIST - KNEECAP	77	23.51	.98	21.88 - 25.13	24.08
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	48	8.85	.41	8.17 - 9.54	9.04
CALF CIRCUMFERENCE	39	15.32	.72	14.13 - 16.52	15.75
HEEL/ANKLE CIRC.	63	13.34	.42	12.64 - 14.04	13.64
HIP CIRCUMFERENCE	38	43.00	.87	41.57 - 44.43	44.50
KNEE CIRCUMFERENCE	38	15.42	.59	14.45 - 16.40	15.89
UPPER THIGH CIRCUM	37	25.74	.95	24.18 - 27.30	26.69
WAIST CIRCUMFERENC	29	31.81	2.02	28.48 - 35.13	32.89
***ARCS***					
BACK ARC, HIP	46	21.33	.85	19.92 - 22.73	22.06
BACK ARC, WAIST	45	15.73	1.04	14.01 - 17.45	16.25
CROTCH LENGTH	53	31.93	1.69	29.13 - 34.72	32.81
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	15.81	.51	14.97 - 16.65	16.33
WAIST BREADTH	21	11.48	.75	10.25 - 12.72	11.87
WAIST DEPTH	19	8.22	.69	7.08 - 9.36	8.51

\* UNITS ARE INCHES OR POUNDS

TABLE 94

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE REGULAR

THE RANGE FOR HIP CIRCUMFERENCE 44.50 - 47.49  
 THE RANGE FOR CROTCH HEIGHT 30.00 - 31.99

N = 4      TARIFF PERCENTAGE = .31%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	188.48	9.33	173.01 - 203.79	200.07
***HEIGHTS***					
ANKLE HEIGHT	68	4.29	.34	3.73 - 4.84	4.40
BUTTOCK HEIGHT	8	34.59	.83	33.22 - 35.96	35.68
CALF HEIGHT	10	13.58	.54	12.60 - 14.39	13.98
CROTCH HEIGHT	7	31.00	.58	30.05 - 31.95	32.00
KNEECAP HEIGHT	9	19.57	.52	18.72 - 20.42	20.15
SPHYRION HEIGHT	69	2.66	.21	2.32 - 3.00	2.71
STATURE	2	67.06	1.40	64.75 - 69.37	68.58
WAIST HEIGHT	6	41.66	1.11	39.83 - 43.49	42.81
***LENGTHS***					
WAIST - BUTTOCK	75	7.07	1.10	5.25 - 8.88	7.13
WAIST - CROTCH	76	10.66	.94	9.10 - 12.21	10.81
WAIST - KNEECAP	77	22.09	.98	20.46 - 23.71	22.66
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	9.08	.41	8.40 - 9.77	9.27
CALF CIRCUMFERENCE	39	16.20	.72	15.01 - 17.40	16.62
HEEL/ANKLE CIRC.	63	13.83	.42	12.33 - 13.73	13.33
HIP CIRCUMFERENCE	30	46.00	.87	44.57 - 47.43	47.50
KNEE CIRCUMFERENCE	38	16.02	.59	15.04 - 16.99	16.48
UPPER THIGH CIRCUM	37	27.94	.95	26.38 - 29.50	28.88
WAIST CIRCUMFERENC	29	34.32	2.02	30.99 - 37.65	35.40
***ARCS***					
BACK ARC, HIP	46	22.98	.85	21.57 - 24.38	23.71
BACK ARC, WAIST	45	16.99	1.04	15.27 - 18.71	17.51
CROTCH LENGTH	53	33.43	1.69	30.64 - 36.23	34.32
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	16.88	.51	16.04 - 17.72	17.41
WAIST BREADTH	21	12.21	.75	10.98 - 13.44	12.60
WAIST DEPTH	19	9.05	.69	7.90 - 10.19	9.34

\* UNITS ARE INCHES OR POUNDS

TABLE 95

## 18 SIZE PROGRAM FOR THE LOWER BODY\*

## X-LARGE LONG

THE RANGE FOR HIP CIRCUMFERENCE 44.50 - 47.49  
 THE RANGE FOR CROTCH HEIGHT 32.00 - 33.99

N = 2 TARIFF PERCENTAGE = .16%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	192.30	9.33	176.91 - 207.70	203.97
***HEIGHTS***					
ANKLE HEIGHT	68	4.56	.34	4.00 - 5.12	4.67
BUTTOCK HEIGHT	8	36.53	.83	35.16 - 37.90	37.62
CALF HEIGHT	10	14.36	.54	13.46 - 15.25	14.84
CROTCH HEIGHT	7	33.00	.58	32.05 - 33.95	34.00
KNEECAP HEIGHT	9	28.66	.52	19.81 - 21.51	21.25
SPHYRION HEIGHT	69	2.72	.21	2.38 - 3.06	2.77
STATURE	2	69.46	1.40	67.15 - 71.77	70.98
WAIST HEIGHT	6	43.68	1.11	41.85 - 45.51	44.84
***LENGTHS***					
WAIST - BUTTOCK	75	7.15	1.10	5.34 - 8.97	7.22
WAIST - CROTCH	76	10.68	.94	9.13 - 12.24	10.84
WAIST - KNEECAP	77	23.02	.98	21.39 - 24.64	23.59
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	9.13	.41	8.45 - 9.82	9.32
CALF CIRCUMFERENCE	39	16.19	.72	14.99 - 17.38	16.61
HEEL/ANKLE CIRC.	63	13.36	.42	12.66 - 14.06	13.66
HIP CIRCUMFERENCE	30	46.00	.87	44.57 - 47.43	47.50
KNEE CIRCUMFERENCE	38	16.14	.59	15.16 - 17.11	16.60
UPPER THIGH CIRCUM	37	27.83	.95	26.27 - 29.39	28.77
WAIST CIRCUMFERENC	29	34.19	2.02	30.87 - 37.52	35.28
***ARCS***					
BACK ARC, HIP	46	22.91	.85	21.51 - 24.32	23.65
BACK ARC, WAIST	45	16.91	1.04	15.19 - 18.63	17.43
CROTCH LENGTH	53	33.53	1.69	30.73 - 36.32	34.41
***DEPTHS AND BREADTHS***					
HIP BREADTH	22	16.87	.51	16.03 - 17.71	17.40
WAIST BREADTH	21	12.23	.75	11.00 - 13.46	12.62
WAIST DEPTH	19	8.96	.69	7.82 - 10.10	9.25

\* UNITS ARE INCHES OR POUNDS

TABLE 96

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## SMALL REGULAR

THE RANGE FOR STATURE 58.50 - 62.99  
 THE RANGE FOR WEIGHT 100.00 - 129.99

N = 278 TARIFF PERCENTAGE = 22.71%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	115.00	8.66	100.71 - 129.29	130.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.02	.36	3.42 - 4.62	4.18
AXILLA HEIGHT	4	45.70	1.20	43.71 - 47.69	47.57
BUSTPOINT HEIGHT	5	43.84	1.33	41.65 - 46.03	45.62
BUTTOCK HEIGHT	8	30.94	1.27	28.86 - 33.03	32.32
CALF HEIGHT	10	11.93	.70	10.78 - 13.09	12.52
CERVICALE HEIGHT	71	52.57	1.22	50.56 - 54.57	54.61
CROTCH HEIGHT	7	28.12	1.18	26.18 - 30.07	29.38
KNEECAP HEIGHT	9	17.69	.72	16.51 - 18.88	18.45
SHOULDER HEIGHT	3	49.49	1.25	47.42 - 51.56	51.55
SPHYRION HEIGHT	69	2.43	.20	2.10 - 2.76	2.51
STATURE	2	60.75	1.30	58.61 - 62.89	63.00
WAIST HEIGHT	6	37.50	1.32	35.33 - 39.68	39.08
***LENGTHS***					
ACROMION - AXILLA	72	3.79	.35	3.21 - 4.37	3.98
AXILLA TO WAIST	50	8.72	.96	7.14 - 10.30	8.97
CERVICALE-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	8.72	.75	7.48 - 9.97	8.99
CERVICALE-BUTTOCK	78	21.62	1.08	19.83 - 23.41	22.30
NECK TO BUSTPOINT	49	9.56	.71	8.39 - 10.73	9.91
SLEEVE INSEAM	51	16.73	.80	15.42 - 18.04	17.38
SLEEVE OUTSEAM	52	19.96	.86	18.55 - 21.38	20.77
SHOULDER TO ELBOW	13	12.47	.49	11.67 - 13.27	12.97
WAIST BACK	47	15.35	.93	13.82 - 16.88	15.84
WAIST - BUTTOCK	75	6.56	1.07	4.79 - 8.33	6.76
WAIST - CROTCH	76	9.38	.92	7.86 - 10.89	9.70
WAIST FRONT	46	13.90	.94	12.34 - 15.46	14.33
WAIST - KNEECAP	77	19.81	.99	18.17 - 21.45	20.62

\* UNITS ARE INCHES OR POUNDS

TABLE 96 (cont'd)

6 SIZE TOTAL BODY  
SMALL REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.85	.40	7.19 - 8.51	8.11
ARM CIRC AT SCYE	32	14.14	.66	13.05 - 15.22	14.71
BICEPS CIRC, FLXD	33	10.15	.63	9.12 - 11.19	10.61
BUST CIRCUMFERENCE	27	33.45	1.78	30.52 - 36.38	34.76
BUST-WAIST, CIRC.	79	6.75	1.67	4.00 - 9.50	6.74
CALF CIRCUMFERENCE	39	13.25	.72	12.06 - 14.44	13.79
CHEST CIRC AT SCYE	26	32.53	1.40	30.21 - 34.84	33.65
CHEST C BELOW BUST	28	28.38	1.40	26.07 - 30.68	29.43
ELBOW CIRC FLXD	34	9.76	.50	8.93 - 10.58	10.14
FOREARM CIRC, FLXD	35	9.33	.44	8.61 - 10.05	9.67
HEEL/ANKLE CIRC.	63	11.60	.43	10.89 - 12.31	11.99
HIP CIRCUMFERENCE	30	35.75	1.52	33.25 - 38.26	37.44
KNEE CIRCUMFERENCE	38	13.07	.61	12.06 - 14.07	13.64
NECK CIRCUMFERENCE	24	12.36	.50	11.53 - 13.19	12.69
SHOULDER CIRCUMFER	25	38.19	1.45	35.80 - 40.59	39.45
UPPER THIGH CIRCUM	37	21.35	1.15	19.45 - 23.25	22.41
VERTICAL TRUNK CIR	31	57.72	1.77	54.79 - 60.64	59.95
WAIST CIRCUMFERENC	29	26.70	1.94	23.49 - 29.91	28.02
WRIST CIRCUMFERENC	36	5.59	.21	5.24 - 5.95	5.75
***ARCS***					
BACK ARC, BUST	44	15.95	.93	14.41 - 17.49	16.54
BACK ARC, HIP	46	17.82	1.05	16.09 - 19.56	18.65
BACK ARC, WAIST	45	13.29	1.01	11.62 - 14.95	13.93
CROTCH LENGTH	53	27.25	1.74	24.38 - 30.13	28.46
INTERSCYE BACK	42	14.48	.83	13.11 - 15.85	14.84
INTERSCYE FRONT	43	12.64	.58	11.68 - 13.60	12.98
SHOULDER LENGTH	41	5.69	.39	5.04 - 6.34	5.84
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.67	.66	7.58 - 9.77	9.06
CHEST BREADTH	20	10.73	.53	9.86 - 11.61	11.11
HIP BREADTH	22	13.25	.68	12.13 - 14.38	13.65
SHOULDER BREADTH	23	15.97	.61	14.97 - 16.98	16.50
WAIST BREADTH	21	9.59	.73	8.38 - 10.80	10.07
WAIST DEPTH	19	6.90	.67	5.80 - 8.00	7.25



TABLE 97

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## SMALL LONG

THE RANGE FOR STATURE 63.00 - 67.49  
 THE RANGE FOR WEIGHT 100.00 - 129.99

N = 293      TARIFF PERCENTAGE = 23.94%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	115.00	8.66	100.71 - 129.29	130.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.42	.36	3.83 - 5.02	4.58
AXILLA HEIGHT	4	49.42	1.20	47.43 - 51.41	51.29
BUSTPOINT HEIGHT	5	47.60	1.33	45.40 - 49.79	49.38
BUTTOCK HEIGHT	8	33.52	1.27	31.43 - 35.61	34.89
CALF HEIGHT	10	13.86	.70	11.90 - 14.21	13.65
CERVICALE HEIGHT	71	56.39	1.22	54.38 - 58.40	58.44
CROTCH HEIGHT	7	30.86	1.18	28.92 - 32.80	32.12
KNEECAP HEIGHT	9	19.28	.72	18.10 - 20.47	20.04
SHOULDER HEIGHT	3	53.35	1.25	51.28 - 55.42	55.40
SPHYRION HEIGHT	69	2.57	.20	2.24 - 2.90	2.65
STATURE	2	65.25	1.30	63.11 - 67.39	67.50
WAIST HEIGHT	6	40.83	1.32	38.65 - 43.00	42.40
***LENGTHS***					
ACROMION - AXILLA	72	3.92	.35	3.34 - 4.51	4.11
AXILLA TO WAIST	50	9.22	.96	7.64 - 10.80	9.46
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	8.79	.75	7.55 - 10.04	9.06
CERVICALE-BUTTOCK	78	22.87	1.08	21.08 - 24.66	23.55
NECK TO BUSTPOINT	49	9.50	.71	8.33 - 10.67	9.85
SLEEVE INSEAM	51	18.14	.80	16.82 - 19.45	18.79
SLEEVE OUTSEAM	52	21.54	.86	20.13 - 22.96	22.35
SHOULDER TO ELBOW	13	13.41	.49	12.60 - 14.21	13.91
WAIST BACK	47	16.25	.93	14.73 - 17.78	16.75
WAIST - BUTTOCK	75	7.31	1.07	5.54 - 9.08	7.51
WAIST - CROTCH	76	9.97	.92	8.45 - 11.48	10.28
WAIST FRONT	48	14.29	.94	12.73 - 15.85	14.72
WAIST - KNEECAP	77	21.55	.99	19.91 - 23.18	22.36

\* UNITS ARE INCHES OR POUNDS

TABLE 97 (cont'd)

6 SIZE TOTAL BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ANKLE CIRCUMFERENC	40	7.91	.40	7.25 - 8.57	8.17
ARM CIRC AT SCYE	32	13.98	.66	12.90 - 15.07	14.56
BICEPS CIRC, FLXD	33	9.65	.63	8.61 - 10.68	10.10
BUST CIRCUMFERENCE	27	32.26	1.78	29.33 - 35.19	33.56
BUST-WAIST, CIRC.	79	6.97	1.67	4.21 - 9.72	6.95
CALF CIRCUMFERENCE	39	12.98	.72	11.79 - 14.17	13.52
CHEST CIRC AT SCYE	26	31.76	1.40	29.44 - 34.07	32.88
CHEST C BELOW BUST	28	27.64	1.40	25.34 - 29.95	28.70
ELBOW CIRC FLXD	34	9.93	.50	9.11 - 10.76	10.32
FOREARM CIRC, FLXD	35	9.20	.44	8.48 - 9.93	9.55
HEEL/ANKLE CIRC.	63	11.99	.43	11.28 - 12.70	12.38
HIP CIRCUMFERENCE	30	35.33	1.52	32.83 - 37.83	37.01
KNEE CIRCUMFERENCE	38	13.02	.61	12.02 - 14.03	13.59
NECK CIRCUMFERCNC	24	12.38	.50	11.55 - 13.21	12.71
SHOULDER CIRCUMFER	25	37.60	1.45	35.20 - 39.99	38.85
UPPER THIGH CIRCUM	37	20.53	1.15	18.63 - 22.43	21.59
VERTICAL TRUNK CIR	31	59.29	1.77	56.36 - 62.22	61.53
WAIST CIRCUMFERENC	29	25.29	1.94	22.08 - 28.50	26.61
WRIST CIRCUMFERENC	36	5.67	.21	5.32 - 6.02	5.83
<b>***ARCS***</b>					
BACK ARC, BUST	44	15.39	.93	13.85 - 16.93	15.98
BACK ARC, HIP	46	17.45	1.05	15.72 - 19.19	18.28
BACK ARC, WAIST	45	12.60	1.01	10.93 - 14.26	13.24
CROTCH LENGTH	53	27.69	1.74	24.82 - 30.57	28.90
INTERSCYE BACK	42	14.52	.83	13.15 - 15.90	14.89
INTERSCYE FRONT	43	12.78	.58	11.82 - 13.74	13.12
SHOULDER LENGTH	41	5.94	.39	5.29 - 6.59	6.09
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	8.18	.66	7.08 - 9.27	8.56
CHEST BREADTH	20	10.47	.53	9.60 - 11.35	10.85
HIP BREADTH	22	13.18	.68	12.05 - 14.30	13.78
SHOULDER BREADTH	23	15.83	.61	14.83 - 16.84	16.36
WAIST BREADTH	21	9.24	.73	8.03 - 10.45	9.71
WAIST DEPTH	19	6.35	.67	5.25 - 7.45	6.70

TABLE 98

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM REGULAR

THE RANGE FOR STATURE                      60.50 - 64.99  
 THE RANGE FOR WEIGHT                      130.00 - 159.99

N = 296      TARIFF PERCENTAGE = 24.18%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	145.00	8.66	130.71 - 159.29	160.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.11	.36	3.51 - 4.71	4.27
AXILLA HEIGHT	4	47.37	1.20	45.38 - 49.35	49.24
BUSTPOINT HEIGHT	5	45.32	1.33	43.13 - 47.51	47.10
BUTTOCK HEIGHT	8	32.26	1.27	30.17 - 34.35	33.63
GALF HEIGHT	10	12.48	.70	11.33 - 13.64	13.07
CERVICALE HEIGHT	71	54.54	1.22	52.53 - 56.55	56.59
CROTCH HEIGHT	7	29.11	1.18	27.17 - 31.05	30.37
KNEECAP HEIGHT	9	18.33	.72	17.15 - 19.52	19.09
SHOULDER HEIGHT	3	51.46	1.25	49.39 - 53.53	53.52
SPHYRION HEIGHT	69	2.50	.20	2.17 - 2.83	2.58
STATURE	2	62.75	1.30	60.61 - 64.89	65.00
WAIST HEIGHT	6	38.80	1.32	36.63 - 40.98	40.38
***LENGTHS***					
ACROMION - AXILLA	72	4.09	.35	3.51 - 4.68	4.28
AXILLA TO WAIST	50	8.94	.96	7.36 - 10.52	9.18
CERVICALE-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	9.22	.75	7.98 - 10.46	9.49
CERVICALE-BUTTOCK	78	22.28	1.08	20.49 - 24.07	22.96
NECK TO BUSTPOINT	49	10.30	.71	9.13 - 11.47	10.66
SLEEVE INSEAM	51	17.26	.80	15.95 - 18.57	17.91
SLEEVE OUTSEAM	52	20.70	.86	19.29 - 22.12	21.51
SHOULDER TO ELBOW	13	12.95	.49	12.14 - 13.75	13.45
WAIST BACK	47	15.84	.93	14.31 - 17.36	16.33
WAIST - BUTTOCK	75	6.54	1.07	4.78 - 8.31	6.74
WAIST - CROTCH	76	9.69	.92	8.18 - 11.21	10.01
WAIST FRONT	48	14.54	.94	12.98 - 16.10	14.97
WAIST - KNEECAP	77	20.47	.99	18.83 - 22.11	21.28

\* UNITS ARE INCHES OR POUNDS

TABLE 98 (cont'd)

6 SIZE TOTAL BODY  
MEDIUM REGULAR

	VAR NO	MID-SIZE SZ-SO VALUE		RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.35	.40	7.69 - 9.01	8.61
ARM CIRC AT SCYE	32	15.38	.66	14.29 - 16.46	15.95
BICEPS CIRC, FLXD	33	11.34	.63	10.31 - 12.38	11.80
BUST CIRCUMFERENCE	27	36.73	1.78	33.80 - 39.65	38.03
BUST-WAIST, CIRC.	79	6.60	1.67	3.85 - 9.35	6.59
CALF CIRCUMFERENCE	39	14.48	.72	13.29 - 15.67	15.02
CHEST CIRC AT SCYE	26	35.21	1.40	32.90 - 37.53	36.34
CHEST C BELOW BUST	28	30.90	1.40	28.60 - 33.21	31.96
ELBOW CIRC FLXD	34	10.42	.50	9.60 - 11.25	10.80
FOREARM CIRC, FLXD	35	10.08	.44	9.36 - 10.80	10.42
HEEL/ANKLE CIRC.	63	12.17	.43	11.46 - 12.88	12.57
HIP CIRCUMFERENCE	30	39.35	1.52	36.85 - 41.86	41.04
KNEE CIRCUMFERENCE	38	14.23	.61	13.22 - 15.23	14.80
NECK CIRCUMFERCNC	24	13.00	.50	12.17 - 13.83	13.33
SHOULDER CIRCUMFER	25	41.03	1.45	38.63 - 43.42	42.28
UPPER THIGH CIRCUM	37	23.92	1.15	22.02 - 25.81	24.97
VERTICAL TRUNK CIR	31	61.31	1.77	58.39 - 64.24	63.55
WAIST CIRCUMFERENC	29	30.12	1.94	26.92 - 33.33	31.45
WRIST CIRCUMFERENC	36	5.87	.21	5.52 - 6.22	6.03
***ARCS***					
BACK ARC, BUST	44	17.44	.93	15.90 - 18.96	18.03
BACK ARC, HIP	46	19.68	1.05	17.94 - 21.42	20.51
BACK ARC, WAIST	45	14.96	1.01	13.29 - 16.62	15.60
CROTCH LENGTH	53	29.42	1.74	26.54 - 32.29	30.62
INTERSCYE BACK	42	15.18	.83	13.81 - 16.55	15.55
INTERSCYE FRONT	43	13.25	.58	12.29 - 14.21	13.60
SHOULDER LENGTH	41	5.85	.39	5.20 - 6.50	5.99
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.72	.66	8.62 - 10.82	10.11
CHEST BREADTH	20	11.64	.53	10.76 - 12.51	12.02
HIP BREADTH	22	14.49	.68	13.36 - 15.62	15.09
SHOULDER BREADTH	23	17.11	.61	16.10 - 18.11	17.64
WAIST BREADTH	21	10.73	.73	9.52 - 11.94	11.21
WAIST DEPTH	19	7.90	.67	6.80 - 9.00	8.25

TABLE 99

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM LONG

THE RANGE FOR STATURE                      65.00 - 69.49  
 THE RANGE FOR WEIGHT                    130.00 - 159.99

N = 285      TARIFF PERCENTAGE = 23.28%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	145.00	8.66	130.71 - 159.29	160.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.52	.36	3.92 - 5.11	4.67
AXILLA HEIGHT	4	51.09	1.20	49.10 - 53.08	52.96
BUSTPOINT HEIGHT	5	49.07	1.33	46.88 - 51.26	50.85
BUTTOCK HEIGHT	8	34.83	1.27	32.74 - 36.92	36.20
CALF HEIGHT	10	13.61	.70	12.46 - 14.77	14.20
CERVICALE HEIGHT	71	58.36	1.22	56.35 - 60.37	60.41
CROTCH HEIGHT	7	31.85	1.18	29.91 - 33.79	33.10
KNEECAP HEIGHT	9	19.92	.72	18.74 - 21.11	20.68
SHOULDER HEIGHT	3	55.32	1.25	53.25 - 57.39	57.37
SPHYRION HEIGHT	69	2.65	.20	2.32 - 2.98	2.73
STATURE	2	67.25	1.30	65.11 - 69.39	69.50
WAIST HEIGHT	6	42.13	1.32	39.95 - 44.30	43.70
***LENGTHS***					
ACROMION - AXILLA	72	4.23	.35	3.64 - 4.81	4.41
AXILLA TO WAIST	50	9.43	.96	7.85 - 11.01	9.68
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.54	3.03
CERV. - BUSTPOINT	74	9.29	.75	8.05 - 10.53	9.56
CERVICALE-BUTTOCK	78	23.53	1.08	21.74 - 25.32	24.20
NECK TO BUSTPOINT	49	10.24	.71	9.07 - 11.41	10.60
SLEEVE INSEAM	51	18.66	.80	17.35 - 19.97	19.31
SLEEVE OUTSEAM	52	22.28	.86	20.86 - 23.70	23.09
SHOULDER TO ELBOW	13	13.89	.49	13.08 - 14.69	14.39
WAIST BACK	47	16.74	.93	15.21 - 18.27	17.23
WAIST - BUTTOCK	75	7.30	1.07	5.53 - 9.06	7.50
WAIST - CROTCH	76	10.28	.92	8.76 - 11.79	10.60
WAIST FRONT	48	14.93	.94	13.37 - 16.49	15.36
WAIST - KNEECAP	77	22.21	.99	20.57 - 23.84	23.02

\* UNITS ARE INCHES OR POUNDS

TABLE 99 (cont'd)

6 SIZE TOTAL BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.41	.40	7.75 - 9.07	8.67
ARM CIRC AT SCYE	32	15.23	.66	14.14 - 16.31	15.80
BICEPS CIRC, FLXD	33	10.84	.63	9.80 - 11.87	11.29
BUST CIRCUMFERENCE	27	35.53	1.78	32.60 - 38.46	36.84
BUST-WAIST, CIRC.	79	6.82	1.67	4.86 - 9.57	6.80
CALF CIRCUMFERENCE	39	14.21	.72	13.02 - 15.40	14.75
CHEST CIRC AT SCYE	26	34.44	1.40	32.12 - 36.76	35.57
CHEST C BELOW BUST	28	30.17	1.40	27.86 - 32.47	31.23
ELBOW CIRC FLXD	34	10.60	.50	9.77 - 11.43	10.98
FOREARM CIRC, FLXD	35	9.96	.44	9.23 - 10.68	10.30
HEEL/ANKLE CIRC.	63	12.56	.43	11.85 - 13.27	12.95
HIP CIRCUMFERENCE	30	38.93	1.52	36.43 - 41.43	40.61
KNEE CIRCUMFERENCE	38	14.19	.61	13.18 - 15.19	14.75
NECK CIRCUMFERCNC	24	13.02	.50	12.19 - 13.85	13.35
SHOULDER CIRCUMFER	25	40.43	1.45	38.04 - 42.83	41.68
UPPER THIGH CIRCUM	37	23.10	1.15	21.20 - 24.99	24.15
VERTICAL TRUNK CIR	31	62.89	1.77	59.96 - 65.81	65.12
WAIST CIRCUMFERENC	29	28.72	1.94	25.51 - 31.93	30.04
WRIST CIRCUMFERENC	36	5.95	.21	5.59 - 6.30	6.10
***ARCS***					
BACK ARC, BUST	44	16.88	.93	15.34 - 18.42	17.47
BACK ARC, HIP	46	19.31	1.05	17.57 - 21.05	20.14
BACK ARC, WAIST	45	14.27	1.01	12.60 - 15.93	14.91
CROTCH LENGTH	53	29.86	1.74	26.98 - 32.73	31.06
INTERSCYE BACK	42	15.23	.83	13.85 - 16.60	15.59
INTERSCYE FRONT	43	13.39	.58	12.43 - 14.35	13.74
SHOULDER LENGTH	41	6.09	.39	5.44 - 6.74	6.24
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.22	.66	8.13 - 10.32	9.61
CHEST BREADTH	20	11.38	.53	10.50 - 12.25	11.76
HIP BREADTH	22	14.41	.68	13.29 - 15.54	15.01
SHOULDER BREADTH	23	16.97	.61	15.96 - 17.97	17.49
WAIST BREADTH	21	10.38	.73	9.17 - 11.59	10.86
WAIST DEPTH	19	7.35	.67	6.25 - 8.46	7.70

TABLE 100

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE REGULAR

THE RANGE FOR STATURE 62.50 - 66.99  
 THE RANGE FOR WEIGHT 160.00 - 189.99

N = 30 TARIFF PERCENTAGE = 2.45%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	175.00	8.66	160.71 - 189.29	190.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.20	.36	3.60 - 4.80	4.36
AXILLA HEIGHT	4	49.04	1.20	47.05 - 51.02	50.91
BUSTPOINT HEIGHT	5	46.79	1.33	44.60 - 48.99	48.57
BUTTOCK HEIGHT	8	33.57	1.27	31.49 - 35.66	34.95
CALF HEIGHT	10	13.04	.70	11.88 - 14.19	13.63
CERVICALE HEIGHT	71	56.51	1.22	54.50 - 58.52	58.56
CROTCH HEIGHT	7	30.10	1.18	28.16 - 32.04	31.35
KNEECAP HEIGHT	9	18.97	.72	17.79 - 20.16	19.73
SHOULDER HEIGHT	3	53.43	1.25	51.36 - 55.50	55.49
SPHYRION HEIGHT	69	2.58	.28	2.25 - 2.91	2.66
STATURE	2	64.75	1.38	62.61 - 66.89	67.00
WAIST HEIGHT	6	40.10	1.32	37.93 - 42.28	41.67
***LENGTHS***					
ACROMION - AXILLA	72	4.39	.35	3.81 - 4.98	4.58
AXILLA TO WAIST	50	9.15	.96	7.57 - 10.73	9.40
CERVICALE-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	9.72	.75	8.48 - 10.96	9.99
CERVICALE-BUTTOCK	78	22.94	1.08	21.15 - 24.73	23.61
NECK TO BUSTPOINT	49	11.05	.71	9.88 - 12.22	11.41
SLEEVE INSEAM	51	17.78	.80	16.47 - 19.09	18.43
SLEEVE OUTSEAM	52	21.44	.86	20.02 - 22.86	22.25
SHOULDER TO ELBOW	13	13.42	.49	12.62 - 14.23	13.92
WAIST BACK	47	16.32	.93	14.79 - 17.85	16.81
WAIST - BUTTOCK	75	6.53	1.07	4.76 - 8.30	6.73
WAIST - CROTCH	76	10.00	.92	8.49 - 11.52	10.32
WAIST FRONT	48	15.18	.94	13.62 - 16.74	15.61
WAIST - KNEECAP	77	21.13	.99	19.49 - 22.77	21.94

\* UNITS ARE INCHES OR POUNDS

TABLE 100 (cont'd)

6 SIZE TOTAL BODY  
LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.85	.40	8.18 - 9.51	9.11
ARM CIRC AT SCYE	32	16.62	.66	15.53 - 17.70	17.20
BICEPS CIRC, FLXD	33	12.53	.63	11.50 - 13.57	12.99
BUST CIRCUMFERENCE	27	40.00	1.78	37.07 - 42.93	41.31
BUST-WAIST, CIRC.	79	6.45	1.67	3.70 - 9.21	6.44
CALF CIRCUMFERENCE	39	15.71	.72	14.52 - 16.90	16.25
CHEST CIRC AT SCYE	26	37.90	1.40	35.58 - 40.21	39.03
CHEST C BELOW BUST	28	33.43	1.40	31.12 - 35.73	34.48
ELBOW CIRC FLXD	34	11.09	.50	10.26 - 11.91	11.47
FOREARM CIRC, FLXD	35	10.83	.44	10.11 - 11.55	11.17
HEEL/ANKLE CIRC.	63	12.74	.43	12.04 - 13.45	13.14
HIP CIRCUMFERENCE	30	42.95	1.52	40.45 - 45.46	44.64
KNEE CIRCUMFERENCE	38	15.39	.61	14.38 - 16.39	15.96
NECK CIRCUMFERENCE	24	13.64	.50	12.81 - 14.47	13.97
SHOULDER CIRCUMFER	25	43.86	1.45	41.47 - 46.26	45.11
UPPER THIGH CIRCUM	37	26.48	1.15	24.58 - 28.38	27.54
VERTICAL TRUNK CIRC	31	64.91	1.77	61.98 - 67.83	67.14
WAIST CIRCUMFERENC	29	33.55	1.94	30.34 - 36.76	34.87
WRIST CIRCUMFERENC	36	6.15	.21	5.79 - 6.50	6.30
***ARCS***					
BACK ARC, BUST	44	18.94	.93	17.40 - 20.48	19.53
BACK ARC, HIP	46	21.54	1.05	19.80 - 23.27	22.36
BACK ARC, WAIST	45	16.62	1.01	14.96 - 18.29	17.27
CROTCH LENGTH	53	31.58	1.74	28.71 - 34.46	32.79
INTERSCYE BACK	42	15.89	.83	14.51 - 17.26	16.25
INTERSCYE FRONT	43	13.86	.58	12.90 - 14.82	14.21
SHOULDER LENGTH	41	6.00	.39	5.35 - 6.65	6.15
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.77	.66	9.67 - 11.87	11.16
CHEST BREADTH	20	12.54	.53	11.66 - 13.41	12.92
HIP BREADTH	22	15.73	.68	14.60 - 16.85	16.32
SHOULDER BREADTH	23	18.24	.61	17.24 - 19.25	18.77
WAIST BREADTH	21	11.87	.73	10.66 - 13.09	12.35
WAIST DEPTH	19	8.91	.67	7.81 - 10.01	9.26



TABLE 101

## 6 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE LONG

THE RANGE FOR STATURE 67.00 - 71.49  
 THE RANGE FOR WEIGHT 160.00 - 189.99

N = 42 TARIFF PERCENTAGE = 3.43%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	175.00	8.66	160.71 - 189.29	190.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.61	.36	4.01 - 5.21	4.77
AXILLA HEIGHT	4	52.76	1.20	50.77 - 54.75	54.63
BUSTPOINT HEIGHT	5	50.55	1.33	48.35 - 52.74	52.33
BUTTOCK HEIGHT	8	36.15	1.27	34.06 - 38.23	37.52
CALF HEIGHT	10	14.16	.70	13.01 - 15.32	14.75
CERVICALE HEIGHT	71	60.33	1.22	58.33 - 62.34	62.38
CROTCH HEIGHT	7	32.84	1.18	30.90 - 34.78	34.09
KNEECAP HEIGHT	9	20.56	.72	19.38 - 21.75	21.32
SHOULDER HEIGHT	3	57.29	1.25	55.22 - 59.36	59.35
SPHYRION HEIGHT	69	2.72	.20	2.39 - 3.05	2.80
STATURE	2	69.25	1.30	67.11 - 71.39	71.50
WAIST HEIGHT	6	43.43	1.32	41.25 - 45.60	45.00
***LENGTHS***					
ACROMION - AXILLA	72	4.53	.35	3.94 - 5.11	4.72
AXILLA TO WAIST	50	9.65	.96	8.07 - 11.23	9.89
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.54	3.03
CERV. - BUSTPOINT	74	9.79	.75	8.55 - 11.03	10.06
CERVICALE-BUTTOCK	78	24.19	1.06	22.40 - 25.98	24.86
NECK TO BUSTPOINT	49	10.99	.71	9.82 - 12.16	11.35
SLEEVE INSEAM	51	19.19	.80	17.87 - 20.50	19.84
SLEEVE OUTSEAM	52	23.02	.86	21.60 - 24.43	23.82
SHOULDER TO ELBOW	13	14.36	.49	13.56 - 15.17	14.86
WAIST BACK	47	17.22	.93	15.69 - 18.75	17.71
WAIST - BUTTOCK	75	7.28	1.07	5.51 - 9.05	7.48
WAIST - CROTCH	76	10.59	.92	9.07 - 12.10	10.91
WAIST FRONT	48	15.57	.94	14.01 - 17.13	16.00
WAIST - KNEECAP	77	22.86	.99	21.23 - 24.50	23.68

\* UNITS ARE INCHES OR POUNDS

TABLE 101 (cont'd)

6 SIZE TOTAL BODY  
LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.98	.40	8.24 - 9.56	9.17
ARM CIRC AT SCYE	32	16.47	.66	15.38 - 17.55	17.04
BICEPS CIRC, FLXD	33	12.03	.63	10.99 - 13.06	12.48
BUST CIRCUMFERENCE	27	38.81	1.78	35.88 - 41.74	40.12
BUST-WAIST, CIRC.	79	6.67	1.67	3.92 - 9.42	6.65
CALF CIRCUMFERENCE	39	15.44	.72	14.25 - 16.63	15.98
CHEST CIRC AT SCYE	26	37.13	1.48	34.81 - 39.44	38.25
CHEST C BELOW BUST	28	32.69	1.40	30.39 - 35.00	33.75
ELBOW CIRC FLXD	34	11.26	.50	10.44 - 12.09	11.65
FOREARM CIRC, FLXD	35	10.71	.44	9.98 - 11.43	11.05
HEEL/ANKLE CIRC.	63	13.13	.43	12.42 - 13.84	13.52
HIP CIRCUMFERENCE	30	42.53	1.52	40.83 - 45.03	44.21
KNEE CIRCUMFERENCE	38	15.35	.61	14.34 - 16.35	15.91
NECK CIRCUMFERCNC	24	13.66	.50	12.83 - 14.49	13.99
SHOULDER CIRCUMFER	25	43.27	1.45	40.87 - 45.66	44.52
UPPER THIGH CIRCUM	37	25.66	1.15	23.76 - 27.56	26.72
VERTICAL TRUNK CIR	31	66.48	1.77	63.56 - 69.41	68.72
WAIST CIRCUMFERENC	29	32.14	1.94	28.93 - 35.35	33.46
WRIST CIRCUMFERENC	36	6.22	.21	5.87 - 6.57	6.38
***ARCS***					
BACK ARC, BUST	44	18.38	.93	16.84 - 19.92	18.97
BACK ARC, HIP	46	21.17	1.05	19.43 - 22.91	21.99
BACK ARC, WAIST	45	15.93	1.01	14.27 - 17.60	16.58
CROTCH LENGTH	53	32.02	1.74	29.15 - 34.90	33.22
INTERSCYE BACK	42	15.93	.83	14.56 - 17.30	16.29
INTERSCYE FRONT	43	14.00	.58	13.04 - 14.96	14.35
SHOULDER LENGTH	41	6.25	.39	5.60 - 6.90	6.39
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.27	.66	9.18 - 11.37	10.66
CHEST BREADTH	20	12.28	.53	11.40 - 13.16	12.66
HIP BREADTH	22	15.65	.68	14.52 - 16.78	16.25
SHOULDER BREADTH	23	18.10	.61	17.09 - 19.11	18.63
WAIST BREADTH	21	11.52	.73	10.31 - 12.73	12.00
WAIST DEPTH	19	8.36	.67	7.26 - 9.46	8.71

TABLE 102

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

SMALL REGULAR

THE RANGE FOR STATURE 59.00 - 62.99  
 THE RANGE FOR WEIGHT 95.00 - 119.99

N = 184 TARIFF PERCENTAGE = 15.16%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.50	7.22	95.59 - 119.41	120.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.06	.36	3.47 - 4.65	4.21
AXILLA HEIGHT	4	45.90	1.10	44.09 - 47.71	47.56
BUSTPOINT HEIGHT	5	44.10	1.23	42.07 - 46.13	45.59
BUTTOCK HEIGHT	8	31.05	1.22	29.03 - 33.06	32.26
CALF HEIGHT	10	11.98	.68	10.85 - 13.11	12.50
CERVICALE HEIGHT	71	52.71	1.11	50.89 - 54.53	54.52
CROTCH HEIGHT	7	28.33	1.12	26.49 - 30.18	29.46
KNEECAP HEIGHT	9	17.80	.69	16.66 - 18.93	18.48
SHOULDER HEIGHT	3	49.64	1.15	47.75 - 51.53	51.46
SPHYRION HEIGHT	69	2.43	.20	2.11 - 2.76	2.50
STATURE	2	61.00	1.15	59.09 - 62.91	63.00
WAIST HEIGHT	6	37.73	1.24	35.68 - 39.78	39.14
***LENGTHS***					
ACROMION - AXILLA	72	3.74	.35	3.16 - 4.32	3.90
AXILLA TO WAIST	50	8.75	.96	7.17 - 10.33	8.97
CERVICALE-ACROMION	73	3.07	.30	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	8.61	.75	7.38 - 9.85	8.84
CERVICALE-BUTTOCK	78	21.67	1.07	19.90 - 23.43	22.26
NECK TO BUSTPOINT	49	9.36	.70	8.21 - 10.51	9.66
SLEEVE INSEAM	51	16.83	.77	15.56 - 18.11	17.42
SLEEVE OUTSEAM	52	20.84	.83	18.67 - 21.42	20.76
SHOULDER TO ELBOW	13	12.51	.47	11.73 - 13.28	12.95
WAIST BACK	47	15.38	.92	13.87 - 16.90	15.82
WAIST - BUTTOCK	75	6.69	1.07	4.93 - 8.45	6.88
WAIST - CROTCH	76	9.40	.91	7.89 - 10.91	9.58
WAIST FRONT	48	13.80	.94	12.25 - 15.35	14.17
WAIST - KNEECAP	77	19.94	.96	18.34 - 21.53	20.66

\* UNITS ARE INCHES OR POUNDS

TABLE 102 (cont'd)

8 SIZE TOTAL BODY  
SMALL REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.73	.39	7.08 - 8.38	7.96
ARM CIRC AT SCYE	32	13.80	.62	12.77 - 14.83	14.28
BICEPS CIRC, FLXD	33	9.77	.58	8.81 - 10.73	10.14
BUST CIRCUMFERENCE	27	32.43	1.66	29.69 - 35.17	33.49
BUST-WAIST, CIRC.	79	6.82	1.67	4.07 - 9.57	6.82
CALF CIRCUMFERENCE	39	12.89	.69	11.76 - 14.03	13.34
CHEST CIRC AT SCYE	26	31.73	1.31	29.56 - 33.89	32.65
CHEST C BELOW BUST	28	27.62	1.32	25.45 - 29.80	28.48
ELBOW CIRC FLXD	34	9.62	.49	8.81 - 10.43	9.94
FOREARM CIRC, FLXD	35	9.12	.42	8.43 - 9.81	9.40
HEEL/ANKLE CIRC.	63	11.52	.42	10.83 - 12.22	11.86
HIP CIRCUMFERENCE	30	34.78	1.39	32.49 - 37.08	36.17
KNEE CIRCUMFERENCE	38	12.77	.58	11.82 - 13.73	13.24
NECK CIRCUMFERCNC	24	12.21	.49	11.39 - 13.02	12.48
SHOULDER CIRCUMFER	25	37.39	1.36	35.14 - 39.63	38.41
UPPER THIGH CIRCUM	37	20.57	1.05	18.85 - 22.30	21.43
VERTICAL TRUNK CIR	31	57.08	1.70	54.28 - 59.88	58.99
WAIST CIRCUMFERENC	29	25.61	1.82	22.60 - 28.62	26.67
WRIST CIRCUMFERENC	36	5.54	.21	5.19 - 5.88	5.67
***ARCS***					
BACK ARC, BUST	44	15.48	.89	14.02 - 16.94	15.96
BACK ARC, HIP	46	17.38	1.00	15.65 - 18.95	17.98
BACK ARC, WAIST	45	12.76	.95	11.18 - 14.33	13.27
CROTCH LENGTH	53	26.79	1.71	23.96 - 29.61	27.80
INTERSCYE BACK	42	14.31	.82	12.95 - 15.67	14.61
INTERSCYE FRONT	43	12.51	.57	11.56 - 13.45	12.80
SHOULDER LENGTH	41	5.70	.39	5.05 - 6.34	5.82
***DEPTHS AND BREADTHS***					
BUST DEPTH	16	8.33	.63	7.29 - 9.36	8.63
CHEST BREADTH	20	10.46	.50	9.63 - 11.30	10.77
HIP BREADTH	22	12.93	.65	11.85 - 14.01	13.43
SHOULDER BREADTH	23	15.67	.58	14.71 - 16.62	16.10
WAIST BREADTH	21	9.25	.70	8.09 - 10.41	9.63
WAIST DEPTH	19	6.56	.63	5.51 - 7.60	6.83

TABLE 103

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

SMALL LONG

THE RANGE FOR STATURE 63.00 - 66.99  
 THE RANGE FOR WEIGHT 95.00 - 119.99

N = 123      TARIFF PERCENTAGE = 10.13%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.50	7.22	95.59 - 119.41	120.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.42	.36	3.83 - 5.02	4.57
AXILLA HEIGHT	4	49.21	1.10	47.40 - 51.02	50.87
BUSTPOINT HEIGHT	5	47.43	1.23	45.40 - 49.47	49.02
BUTTOCK HEIGHT	8	33.33	1.22	31.32 - 35.34	34.55
CALF HEIGHT	10	12.98	.68	11.85 - 14.11	13.50
CERVICALE HEIGHT	71	56.11	1.11	54.28 - 57.93	57.92
CROTCH HEIGHT	7	30.77	1.12	28.92 - 32.61	31.89
KNEECAP HEIGHT	9	19.21	.69	18.08 - 20.34	19.89
SHOULDER HEIGHT	3	53.07	1.15	51.18 - 54.96	54.89
SPHYRION HEIGHT	69	2.56	.20	2.23 - 2.89	2.63
STATURE	2	65.00	1.15	63.09 - 66.91	67.00
WAIST HEIGHT	6	40.69	1.24	38.64 - 42.74	42.89
***LENGTHS***					
ACROMION - AXILLA	72	3.86	.35	3.28 - 4.44	4.02
AXILLA TO WAIST	50	9.19	.96	7.61 - 10.77	9.41
CERVICALE-ACROMION	73	3.84	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	8.67	.75	7.44 - 9.91	8.90
CERVICALE-BUTTOCK	78	22.78	1.07	21.01 - 24.55	23.37
NECK TO BUSTPOINT	49	9.31	.70	8.15 - 10.46	9.60
SLEEVE INSEAM	51	18.08	.77	16.81 - 19.36	18.67
SLEEVE OUTSEAM	52	21.45	.83	20.07 - 22.82	22.16
SHOULDER TO ELBOW	13	13.34	.47	12.56 - 14.12	13.78
WAIST BACK	47	16.18	.92	14.67 - 17.70	16.62
WAIST - BUTTOCK	75	7.36	1.07	5.60 - 9.11	7.55
WAIST - CROTCH	76	9.92	.91	8.41 - 11.43	10.20
WAIST FRONT	48	14.15	.94	12.60 - 15.70	14.52
WAIST - KNEECAP	77	21.48	.96	19.89 - 23.07	22.20

\* UNITS ARE INCHES OR POUNDS

TABLE 103 (cont'd)

8 SIZE TOTAL BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.79	.39	7.14 - 8.43	8.01
ARM CIRC AT SCYE	32	13.67	.62	12.64 - 14.70	14.14
BICEPS CIRC, FLXD	33	9.32	.58	8.36 - 10.28	9.68
BUST CIRCUMFERENCE	27	31.37	1.66	28.63 - 34.11	32.43
BUST-WAIST, CIRC.	79	7.02	1.67	4.26 - 9.77	7.01
CALF CIRCUMFERENCE	39	12.65	.69	11.52 - 13.79	13.10
CHEST CIRC AT SCYE	26	31.04	1.31	28.87 - 33.21	31.96
CHEST C BELOW BUST	28	26.97	1.32	24.80 - 29.14	27.83
ELBOW CIRC FLXD	34	9.78	.49	8.97 - 10.59	10.10
FOREARM CIRC, FLXD	35	9.01	.42	8.32 - 9.70	9.29
HEEL/ANKLE CIRC.	63	11.86	.42	11.17 - 12.56	12.20
HIP CIRCUMFERENCE	38	34.41	1.39	32.11 - 36.70	35.80
KNEE CIRCUMFERENCE	38	12.73	.58	11.78 - 13.69	13.20
NECK CIRCUMFERCNC	24	12.22	.49	11.41 - 13.04	12.49
SHOULDER CIRCUMFER	25	36.86	1.36	34.61 - 39.11	37.88
UPPER THIGH CIRCUM	37	19.84	1.05	18.12 - 21.57	20.70
VERTICAL TRUNK CIR	31	58.48	1.70	55.67 - 61.28	60.39
WAIST CIRCUMFERENC	29	24.36	1.82	21.35 - 27.37	25.42
WRIST CIRCUMFERENC	36	5.60	.21	5.26 - 5.95	5.74
***ARCS***					
BACK ARC, BUST	44	14.98	.89	13.52 - 16.45	15.46
BACK ARC, HIP	46	16.97	1.00	15.32 - 18.62	17.65
BACK ARC, WAIST	45	12.14	.95	10.57 - 13.72	12.66
CROTCH LENGTH	53	27.18	1.71	24.35 - 30.00	28.19
INTERSCYE BACK	42	14.35	.82	12.99 - 15.71	14.65
INTERSCYE FRONT	43	12.63	.57	11.68 - 13.58	12.92
SHOULDER LENGTH	41	5.91	.39	5.27 - 6.56	6.04
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	7.89	.63	6.85 - 8.92	8.19
CHEST BREADTH	20	10.23	.50	9.40 - 11.07	10.54
HIP BREADTH	22	12.86	.65	11.79 - 13.94	13.36
SHOULDER BREADTH	23	15.54	.58	14.59 - 16.50	15.98
WAIST BREADTH	21	8.94	.70	7.78 - 10.10	9.32
WAIST DEPTH	19	6.07	.63	5.03 - 7.11	6.34

TABLE 104

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM REGULAR

THE RANGE FOR STATURE                      60.50 - 64.49  
 THE RANGE FOR WEIGHT                    120.00 - 144.99

N = 368      TARIFF PERCENTAGE = 30.31%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.50	7.22	120.59 - 144.41	145.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.12	.36	3.53 - 4.72	4.27
AXILLA HEIGHT	4	47.15	1.10	45.34 - 48.97	48.82
BUSTPOINT HEIGHT	5	45.19	1.23	43.16 - 47.22	46.78
BUTTOCK HEIGHT	8	32.05	1.22	30.03 - 34.06	33.26
CALF HEIGHT	10	12.40	.68	11.27 - 13.53	12.92
CERVICALE HEIGHT	71	54.21	1.11	52.39 - 56.04	56.03
CROTCH HEIGHT	7	29.06	1.12	27.21 - 30.90	30.18
KNEECAP HEIGHT	9	18.27	.69	17.14 - 19.41	18.95
SHOULDER HEIGHT	3	51.14	1.15	49.25 - 53.03	52.96
SPHYRION HEIGHT	69	2.49	.20	2.16 - 2.82	2.56
STATURE	2	62.50	1.15	60.59 - 64.41	64.50
WAIST HEIGHT	6	38.69	1.24	36.64 - 40.74	40.10
***LENGTHS***					
ACROMION - AXILLA	72	3.98	.35	3.40 - 4.56	4.14
AXILLA TO WAIST	50	8.91	.96	7.33 - 10.49	9.13
CERVICALE-ACROMION	73	3.07	.30	2.58 - 3.57	3.07
CERV. - BUSTPOINT	74	9.02	.75	7.79 - 10.26	9.25
CERVICALE-BUTTOCK	78	22.17	1.07	20.40 - 23.94	22.77
NECK TO BUSTPOINT	49	9.98	.70	8.83 - 11.14	10.28
SLEEVE INSEAM	51	17.22	.77	15.94 - 18.50	17.80
SLEEVE OUTSEAM	52	20.60	.83	19.23 - 21.97	21.32
SHOULDER TO ELBOW	13	12.87	.47	12.09 - 13.65	13.31
WAIST BACK	47	15.75	.92	14.23 - 17.27	16.19
WAIST - BUTTOCK	75	6.65	1.07	4.89 - 8.40	6.84
WAIST - CROTCH	76	9.64	.91	8.13 - 11.15	9.92
WAIST FRONT	48	14.32	.94	12.77 - 15.87	14.69
WAIST - KNEECAP	77	20.42	.96	18.83 - 22.01	21.14

\* UNITS ARE INCHES OR POUNDS

TABEL 104 (cont'd)

 8 SIZE TOTAL BODY  
 MEDIUM REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.15	.39	7.50 - 8.79	8.37
ARM CIRC AT SCYE	32	14.84	.62	13.81 - 15.87	15.32
BICEPS CIRC, FLXD	33	18.78	.58	9.82 - 11.74	11.15
BUST CIRCUMFERENCE	27	35.21	1.66	32.47 - 37.95	36.26
BUST-WAIST, CIRC.	79	6.69	1.67	3.94 - 9.44	6.69
CALF CIRCUMFERENCE	39	13.93	.69	12.80 - 15.06	14.37
CHEST CIRC AT SCYE	26	33.99	1.31	31.83 - 36.16	34.91
CHEST C BELOW BUST	28	29.75	1.32	27.58 - 31.93	30.62
ELBOW CIRC FLXD	34	10.17	.49	9.36 - 10.98	10.49
FOREARM CIRC, FLXD	35	9.75	.42	9.06 - 10.44	10.03
HEEL/ANKLE CIRC.	63	11.99	.42	11.29 - 12.68	12.32
HIP CIRCUMFERENCE	30	37.80	1.39	35.50 - 40.09	39.19
KNEE CIRCUMFERENCE	38	13.74	.58	12.78 - 14.70	14.21
NECK CIRCUMFERCNC	24	12.74	.49	11.93 - 13.55	13.01
SHOULDER CIRCUMFER	25	39.77	1.36	37.52 - 42.02	40.80
UPPER THIGH CIRCUM	37	22.74	1.05	21.02 - 24.47	23.60
VERTICAL TRUNK GIR	31	68.02	1.70	57.21 - 62.82	61.92
WAIST CIRCUMFERENC	29	28.51	1.82	25.50 - 31.53	29.58
WRIST CIRCUMFERENC	36	5.76	.21	5.42 - 6.11	5.90
***ARCS***					
BACK ARC, BUST	44	16.75	.89	15.28 - 18.21	17.22
BACK ARC, HIP	46	18.86	1.00	17.21 - 20.51	19.54
BACK ARC, WAIST	45	14.17	.95	12.60 - 15.75	14.69
CROTCH LENGTH	53	28.57	1.71	25.75 - 31.40	29.59
INTERSCYE BACK	42	14.89	.82	13.53 - 16.26	15.20
INTERSCYE FRONT	43	13.01	.57	12.06 - 13.96	13.30
SHOULDER LENGTH	41	5.81	.39	5.17 - 6.46	5.94
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.22	.63	8.18 - 10.26	9.53
CHEST BREADTH	20	11.23	.50	10.39 - 12.06	11.53
HIP BREADTH	22	13.96	.65	12.89 - 15.04	14.46
SHOULDER BREADTH	23	16.62	.58	15.66 - 17.57	17.05
WAIST BREADTH	21	10.21	.70	9.05 - 11.37	10.60
WAIST DEPTH	19	7.41	.63	6.37 - 8.46	7.69



TABLE 105

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM LONG

THE RANGE FOR STATURE 64.50 - 68.49  
 THE RANGE FOR WEIGHT 120.00 - 144.99

N = 265      TARIFF PERCENTAGE = 21.83%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.50	7.22	120.59 - 144.41	145.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.49	.36	3.89 - 5.08	4.63
AXILLA HEIGHT	4	50.46	1.10	48.65 - 52.28	52.13
BUSTPOINT HEIGHT	5	48.53	1.23	46.49 - 50.56	50.11
BUTTOCK HEIGHT	8	34.33	1.22	32.32 - 36.34	35.55
CALF HEIGHT	10	13.40	.68	12.27 - 14.53	13.92
CERVICAL HEIGHT	71	57.61	1.11	55.79 - 59.43	59.42
CROTCH HEIGHT	7	31.49	1.12	29.64 - 33.33	32.61
KNEECAP HEIGHT	9	19.69	.69	18.55 - 20.82	20.36
SHOULDER HEIGHT	3	54.57	1.15	52.68 - 56.46	56.39
SPHYRION HEIGHT	69	2.62	.20	2.29 - 2.95	2.69
STATURE	2	66.50	1.15	64.59 - 68.41	68.50
WAIST HEIGHT	6	41.65	1.24	39.60 - 43.70	43.05
***LENGTHS***					
ACROMION - AXILLA	72	4.10	.35	3.52 - 4.68	4.26
AXILLA TO WAIST	50	9.35	.96	7.77 - 10.93	9.57
CERVICAL-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.08	.75	7.85 - 10.32	9.31
CERVICAL-BUTTOCK	78	23.28	1.07	21.51 - 25.05	23.88
NECK TO BUSTPOINT	49	9.93	.70	8.78 - 11.08	10.23
SLEEVE INSEAM	51	18.47	.77	17.19 - 19.74	19.05
SLEEVE OUTSEAM	52	22.00	.83	20.63 - 23.38	22.72
SHOULDER TO ELBOW	13	13.70	.47	12.93 - 14.48	14.15
WAIST BACK	47	16.55	.92	15.04 - 18.07	16.99
WAIST - BUTTOCK	75	7.32	1.07	5.56 - 9.07	7.50
WAIST - CROTCH	76	10.16	.91	8.65 - 11.67	10.44
WAIST FRONT	48	14.67	.94	13.12 - 16.22	15.04
WAIST - KNEECAP	77	21.96	.96	20.37 - 23.55	22.69

\* UNITS ARE INCHES OR POUNDS

TABLE 105 (cont'd)

8 SIZE TOTAL BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ANKLE CIRCUMFERENC	40	8.20	.39	7.55 - 8.85	8.42
ARM CIRC AT SCYE	32	14.71	.62	13.68 - 15.73	15.18
BICEPS CIRC, FLXD	33	10.33	.58	9.37 - 11.29	10.69
BUST CIRCUMFERENCE	27	34.15	1.66	31.41 - 36.89	35.20
BUST-WAIST, CIRC.	79	6.88	1.67	4.13 - 9.64	6.88
CALF CIRCUMFERENCE	39	13.69	.69	12.55 - 14.82	14.13
CHEST CIRC AT SCYE	26	33.31	1.31	31.14 - 35.47	34.23
CHEST C BELOW BUST	28	29.10	1.32	26.93 - 31.27	29.96
ELBOW CIRC FLXD	34	10.33	.49	9.52 - 11.14	10.65
FOREARM CIRC, FLXD	35	9.64	.42	8.95 - 10.33	9.92
HEEL/ANKLE CIRC.	63	12.33	.42	11.63 - 13.02	12.66
HIP CIRCUMFERENCE	30	37.42	1.39	35.13 - 39.72	38.81
KNEE CIRCUMFERENCE	38	13.70	.58	12.75 - 14.66	14.17
NECK CIRCUMFERCNC	24	12.75	.49	11.94 - 13.57	13.03
SHOULDER CIRCUMFER	25	39.24	1.36	36.99 - 41.49	40.27
UPPER THIGH CIRCUM	37	22.81	1.05	20.29 - 23.74	22.87
VERTICAL TRUNK CIR	31	61.42	1.70	58.61 - 64.22	63.32
WAIST CIRCUMFERENC	29	27.26	1.82	24.25 - 30.27	28.33
WRIST CIRCUMFERENC	36	5.83	.21	5.49 - 6.18	5.97
<b>***ARCS***</b>					
BACK ARC, BUST	44	16.25	.89	14.78 - 17.71	16.73
BACK ARC, HIP	46	18.53	1.00	16.88 - 20.18	19.21
BACK ARC, WAIST	45	13.56	.95	11.98 - 15.13	14.07
CROTCH LENGTH	53	28.96	1.71	26.14 - 31.79	29.98
INTERSCYE BACK	42	14.93	.82	13.57 - 16.29	15.24
INTERSCYE FRONT	43	13.14	.57	12.19 - 14.09	13.43
SHOULDER LENGTH	41	6.03	.39	5.39 - 6.68	6.16
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	8.76	.63	7.74 - 9.82	9.09
CHEST BREADTH	20	11.00	.50	10.16 - 11.83	11.30
HIP BREADTH	22	13.90	.65	12.82 - 14.97	14.39
SHOULDER BREADTH	23	16.49	.58	15.54 - 17.45	16.93
WAIST BREADTH	21	9.90	.70	8.74 - 11.06	10.28
WAIST DEPTH	19	6.93	.63	5.88 - 7.97	7.20

TABLE 106

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE REGULAR

THE RANGE FOR STATURE                    52.00 - 65.99  
 THE RANGE FOR WEIGHT                    145.00 - 169.99

N = 130      TARIFF PERCENTAGE = 10.71%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	157.50	7.22	145.59 - 169.41	170.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.18	.36	3.59 - 4.78	4.33
AXILLA HEIGHT	4	48.41	1.10	46.59 - 50.22	50.07
BUSTPOINT HEIGHT	5	46.28	1.23	44.25 - 48.31	47.87
BUTTOCK HEIGHT	8	33.04	1.22	31.03 - 35.06	34.26
CALF HEIGHT	10	12.82	.68	11.69 - 13.95	13.34
CERVICAL HEIGHT	71	55.71	1.11	53.89 - 57.54	57.53
CROTCH HEIGHT	7	29.78	1.12	27.93 - 31.62	30.90
KNEECAP HEIGHT	9	18.75	.69	17.61 - 19.88	19.43
SHOULDER HEIGHT	3	52.64	1.15	50.75 - 54.53	54.46
SPHYRION HEIGHT	69	2.55	.20	2.22 - 2.88	2.62
STATURE	2	64.00	1.15	62.09 - 65.91	66.00
WAIST HEIGHT	6	39.65	1.24	37.60 - 41.70	41.05
***LENGTHS***					
ACROMION - AXILLA	72	4.23	.35	3.65 - 4.81	4.39
AXILLA TO WAIST	50	9.07	.96	7.50 - 10.65	9.29
CERVICAL-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	9.43	.75	8.20 - 10.67	9.66
CERVICAL-BUTTOCK	78	22.67	1.87	20.90 - 24.44	23.27
NECK TO BUSTPOINT	49	10.61	.70	9.46 - 11.76	10.91
SLEEVE INSEAM	51	17.61	.77	16.33 - 18.88	18.19
SLEEVE OUTSEAM	52	21.16	.83	19.78 - 22.53	21.07
SHOULDER TO ELBOW	13	13.23	.47	12.46 - 14.01	13.68
WAIST BACK	47	16.12	.92	14.60 - 17.64	16.55
WAIST - BUTTOCK	75	6.61	1.07	4.85 - 8.36	6.80
WAIST - CROTCH	76	9.87	.91	8.37 - 11.38	10.16
WAIST FRONT	48	14.84	.94	13.29 - 16.39	15.21
WAIST - KNEECAP	77	20.91	.96	19.31 - 22.50	21.63

\* UNITS ARE INCHES OR POUNDS

TABLE 106 (cont'd)

8 SIZE TOTAL BODY  
LARGE REGULAR

	VAR NO	MID-SIZE SZ-SO VALUE		RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.56	.39	7.91 - 9.21	8.78
ARM CIRC AT SCYE	32	15.88	.62	14.85 - 16.91	16.36
BICEPS CIRC, FLXD	33	11.79	.58	10.83 - 12.75	12.16
BUST CIRCUMFERENCE	27	37.98	1.66	35.24 - 40.72	39.04
BUST-WAIST, CIRC.	79	6.56	1.67	3.81 - 9.31	6.55
CALF CIRCUMFERENCE	39	14.96	.69	13.83 - 16.10	15.41
CHEST CIRC AT SCYE	26	36.26	1.31	34.09 - 38.43	37.18
CHEST C BELOW BUST	28	31.88	1.32	29.71 - 34.06	32.75
ELBOW CIRC FLXD	34	10.72	.49	9.91 - 11.53	11.04
FOREARM CIRC, FLXD	35	10.38	.42	9.69 - 11.07	10.66
HEEL/ANKLE CIRC.	63	12.45	.42	11.75 - 13.14	12.78
HIP CIRCUMFERENCE	30	40.81	1.39	38.52 - 43.11	42.21
KNEE CIRCUMFERENCE	38	14.71	.58	13.75 - 15.66	15.18
NECK CIRCUMFERENCE	24	13.27	.49	12.46 - 14.89	13.54
SHOULDER CIRCUMFER	25	42.15	1.36	39.91 - 44.40	43.18
UPPER THIGH CIRCUM	37	24.91	1.05	23.18 - 26.63	25.76
VERTICAL TRUNK CIR	31	62.96	1.70	60.15 - 65.76	64.86
WAIST CIRCUMFERENC	29	31.42	1.82	28.41 - 34.43	32.48
WRIST CIRCUMFERENC	36	5.99	.21	5.65 - 6.34	6.13
***ARCS***					
BACK ARC, BUST	44	18.01	.89	16.55 - 19.48	18.49
BACK ARC, HIP	46	20.42	1.00	18.77 - 22.07	21.10
BACK ARC, WAIST	45	15.59	.95	14.01 - 17.16	16.10
CROTCH LENGTH	53	30.36	1.71	27.54 - 33.19	31.38
INTERSCYE BACK	42	15.48	.82	14.12 - 16.84	15.78
INTERSCYE FRONT	43	13.52	.57	12.57 - 14.47	13.81
SHOULDER LENGTH	41	5.93	.39	5.29 - 6.58	6.06
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.11	.63	9.07 - 11.15	10.42
CHEST BREADTH	20	11.99	.50	11.16 - 12.82	12.30
HIP BREADTH	22	15.00	.65	13.92 - 16.07	15.49
SHOULDER BREADTH	23	17.57	.58	16.61 - 18.52	18.00
WAIST BREADTH	21	11.18	.70	10.02 - 12.34	11.56
WAIST DEPTH	19	8.27	.63	7.23 - 9.32	8.55

TABLE 107

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE LONG

THE RANGE FOR STATURE                    56.00 - 69.99  
 THE RANGE FOR WEIGHT                   145.00 - 169.99

N = 113      TARIFF PERCENTAGE = 9.31%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	157.50	7.22	145.59 - 169.41	178.80
***HEIGHTS***					
ANKLE HEIGHT	68	4.55	.36	3.95 - 5.14	4.69
AXILLA HEIGHT	4	51.72	1.10	49.90 - 53.53	53.38
BUSTPOINT HEIGHT	5	49.62	1.23	47.58 - 51.65	51.20
BUTTOCK HEIGHT	8	35.33	1.22	33.32 - 37.34	36.55
CALF HEIGHT	10	13.82	.68	12.69 - 14.95	14.34
CERVICALE HEIGHT	71	59.11	1.11	57.29 - 60.94	60.92
CROTCH HEIGHT	7	32.21	1.12	30.37 - 34.06	33.33
KNEECAP HEIGHT	9	28.16	.69	19.83 - 21.29	20.84
SHOULDER HEIGHT	3	56.07	1.15	54.18 - 57.96	57.89
SPHYRION HEIGHT	69	2.68	.20	2.35 - 3.01	2.75
STATURE	2	68.00	1.15	66.09 - 69.91	70.00
WAIST HEIGHT	6	42.61	1.24	40.56 - 44.66	44.81
***LENGTHS***					
ACROMION - AXILLA	72	4.35	.35	3.77 - 4.93	4.51
AXILLA TO WAIST	50	9.51	.96	7.93 - 11.09	9.73
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.54	3.04
CERV. - BUSTPOINT	74	9.50	.75	8.26 - 10.73	9.72
CERVICALE-BUTTOCK	78	23.78	1.07	22.01 - 25.55	24.38
NECK TO BUSTPOINT	49	10.56	.70	9.41 - 11.71	10.85
SLEEVE INSEAM	51	18.85	.77	17.58 - 20.13	19.44
SLEEVE OUTSEAM	52	22.56	.83	21.19 - 23.93	23.27
SHOULDER TO ELBOW	13	14.07	.47	13.29 - 14.85	14.51
WAIST BACK	47	16.92	.92	15.40 - 18.44	17.36
WAIST - BUTTOCK	75	7.28	1.07	5.52 - 9.03	7.46
WAIST - CROTCH	76	10.40	.91	8.89 - 11.91	10.68
WAIST FRONT	48	15.19	.94	13.64 - 16.74	15.56
WAIST - KNEECAP	77	22.45	.96	20.86 - 24.04	23.17

\* UNITS ARE INCHES OR POUNDS

TABLE 107 (cont'd)

8 SIZE TOTAL BODY  
LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.61	.39	7.96 - 9.26	8.84
ARM CIRC AT SCYE	32	15.74	.62	14.72 - 16.77	16.22
BICEPS CIRC, FLXD	33	11.34	.58	10.38 - 12.30	11.70
BUST CIRCUMFERENCE	27	36.92	1.66	34.18 - 39.66	37.98
BUST-WAIST, CIRC.	79	6.75	1.67	4.00 - 9.50	6.75
CALF CIRCUMFERENCE	39	14.72	.69	13.59 - 15.86	15.17
CHEST CIRC AT SCYE	26	35.57	1.31	33.41 - 37.74	36.49
CHEST C BELOW BUST	28	31.23	1.32	29.06 - 33.41	32.09
ELBOW CIRC FLXD	34	10.87	.49	10.06 - 11.68	11.20
FOREARM CIRC, FLXD	35	10.27	.42	9.58 - 10.96	10.55
HEEL/ANKLE CIRC.	63	12.79	.42	12.09 - 13.48	13.12
HIP CIRCUMFERENCE	30	40.44	1.39	38.14 - 42.73	41.83
KNEE CIRCUMFERENCE	38	14.67	.58	13.71 - 15.63	15.14
NECK CIRCUMFERCNC	24	13.29	.49	12.47 - 14.10	13.56
SHOULDER CIRCUMFER	25	41.62	1.36	39.38 - 43.87	42.65
UPPER THIGH CIRCUM	37	24.18	1.05	22.45 - 25.91	25.04
VERTICAL TRUNK CIR	31	64.36	1.70	61.55 - 67.16	66.26
WAIST CIRCUMFERENC	29	30.17	1.82	27.16 - 33.18	31.23
WRIST CIRCUMFERENC	36	6.06	.21	5.71 - 6.40	6.19
***ARCS***					
BACK ARC, BUST	44	17.52	.89	16.05 - 18.98	17.99
BACK ARC, HIP	46	20.09	1.00	18.44 - 21.74	20.77
BACK ARC, WAIST	45	14.97	.95	13.40 - 16.55	15.49
CROTCH LENGTH	53	30.75	1.71	27.92 - 33.58	31.77
INTERSCYE BACK	42	15.52	.82	14.16 - 16.88	15.82
INTERSCYE FRONT	43	13.64	.57	12.69 - 14.59	13.93
SHOULDER LENGTH	41	6.15	.39	5.51 - 6.80	6.28
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.67	.63	8.63 - 10.71	9.98
CHEST BREADTH	20	11.76	.50	10.93 - 12.59	12.07
HIP BREADTH	22	14.93	.65	13.85 - 16.01	15.43
SHOULDER BREADTH	23	17.44	.58	16.49 - 18.40	17.88
WAIST BREADTH	21	10.86	.70	9.71 - 12.02	11.25
WAIST DEPTH	19	7.78	.63	6.74 - 8.83	8.06

TABLE 108

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## X-LARGE REGULAR

THE RANGE FOR STATURE 53.50 - 67.49  
 THE RANGE FOR WEIGHT 170.00 - 194.99

N = 20 TARIFF PERCENTAGE = 1.65%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	182.50	7.22	170.59 - 194.41	195.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.25	.36	3.65 - 4.84	4.39
AXILLA HEIGHT	4	49.66	1.10	47.85 - 51.47	51.32
BUSTPOINT HEIGHT	5	47.37	1.23	45.34 - 49.40	48.96
BUTTOCK HEIGHT	8	34.04	1.22	32.03 - 36.06	35.26
CALF HEIGHT	10	13.24	.68	12.11 - 14.37	13.76
CERVICAL HEIGHT	71	57.22	1.11	55.39 - 59.04	59.03
CROTCH HEIGHT	7	30.50	1.12	28.65 - 32.34	31.62
KNEECAP HEIGHT	9	19.22	.69	18.09 - 20.35	19.90
SHOULDER HEIGHT	3	54.14	1.15	52.25 - 56.03	55.96
SPHYRION HEIGHT	69	2.61	.20	2.28 - 2.94	2.68
STATURE	2	65.50	1.15	63.59 - 67.41	67.50
WAIST HEIGHT	6	40.61	1.24	38.56 - 42.66	42.01
***LENGTHS***					
ACROMION - AXILLA	72	4.48	.35	3.90 - 5.06	4.64
AXILLA TO WAIST	50	9.23	.96	7.66 - 10.81	9.45
CERVICAL-ACROMION	73	3.08	.30	2.59 - 3.57	3.07
CERV. - BUSTPOINT	74	9.85	.75	8.61 - 11.08	10.07
CERVICAL-BUTTOCK	78	23.17	1.07	21.40 - 24.94	23.77
NECK TO BUSTPOINT	49	11.24	.70	10.08 - 12.39	11.53
SLEEVE INSEAM	51	17.99	.77	16.72 - 19.27	18.57
SLEEVE OUTSEAM	52	21.71	.83	20.34 - 23.08	22.43
SHOULDER TO ELBOW	13	13.60	.47	12.82 - 14.37	14.04
WAIST BACK	47	16.49	.92	14.97 - 18.00	16.92
WAIST - BUTTOCK	75	6.57	1.07	4.81 - 8.32	6.75
WAIST - CROTCH	76	10.11	.91	8.60 - 11.62	10.39
WAIST FRONT	48	15.36	.94	13.81 - 16.91	15.73
WAIST - KNEECAP	77	21.39	.96	19.80 - 22.98	22.11

\* UNITS ARE INCHES OR POUNDS

TABLE 108 (cont'd)

8 SIZE TOTAL BODY  
X-LARGE REGULAR

	VAR NO	MID-SIZE SZ-SD VALUE	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>				
ANKLE CIRCUMFERENC	40	8.97	.39 8.32 - 9.62	9.20
ARM CIRC AT SCYE	32	16.92	.62 15.89 - 17.95	17.40
BICEPS CIRC, FLXD	33	12.80	.58 11.84 - 13.76	13.17
BUST CIRCUMFERENCE	27	40.75	1.66 38.81 - 43.49	41.81
BUST-WAIST, CIRC.	79	6.43	1.67 3.68 - 9.18	6.42
GALF CIRCUMFERENCE	39	16.08	.69 14.86 - 17.13	16.44
CHEST CIRC AT SCYE	26	38.53	1.31 36.36 - 40.69	39.44
CHEST C BELOW BUST	28	34.02	1.32 31.84 - 36.19	34.88
ELBOW CIRC FLXD	34	11.26	.49 10.45 - 12.07	11.59
FOREARM CIRC, FLXD	35	11.01	.42 10.32 - 11.70	11.29
HEEL/ANKLE CIRC.	63	12.91	.42 12.21 - 13.60	13.25
HIP CIRCUMFERENCE	30	43.83	1.39 41.54 - 46.13	45.22
KNEE CIRCUMFERENCE	38	15.68	.58 14.72 - 16.63	16.15
NECK CIRCUMFERCNC	24	13.80	.49 12.99 - 14.62	14.08
SHOULDER CIRCUMFER	25	44.54	1.36 42.29 - 46.79	45.56
UPPER THIGH CIRCUM	37	27.08	1.05 25.35 - 28.80	27.93
VERTICAL TRUNK CIR	31	65.89	1.70 63.09 - 68.70	67.80
WAIST CIRCUMFERENC	29	34.33	1.82 31.32 - 37.34	35.39
WRIST CIRCUMFERENC	36	6.22	.21 5.87 - 6.56	6.35
<b>***ARCS***</b>				
BACK ARC, BUST	44	19.28	.89 17.82 - 20.74	19.76
BACK ARC, HIP	46	21.98	1.00 20.33 - 23.63	22.66
BACK ARC, WAIST	45	17.00	.95 15.43 - 18.58	17.52
CROTCH LENGTH	53	32.15	1.71 29.32 - 34.97	33.16
INTERSCYE BACK	42	16.06	.82 14.78 - 17.42	16.37
INTERSCYE FRONT	43	14.02	.57 13.08 - 14.97	14.32
SHOULDER LENGTH	41	6.05	.39 5.41 - 6.70	6.18
<b>***DEPTHS AND BREADTHS***</b>				
BUST DEPTH	18	11.00	.63 9.97 - 12.04	11.31
CHEST BREADTH	20	12.75	.50 11.92 - 13.58	13.06
HIP BREADTH	22	16.03	.65 14.95 - 17.11	16.53
SHOULDER BREADTH	23	18.52	.58 17.56 - 19.47	18.95
WAIST BREADTH	21	12.14	.70 10.98 - 13.30	12.52
WAIST DEPTH	19	9.13	.63 8.09 - 10.17	9.41



TABLE 109

## 8 SIZE PROGRAM FOR THE TOTAL BODY\*

## X-LARGE LONG

THE RANGE FOR STATURE  
THE RANGE FOR WEIGHT

67.50 - 71.49  
170.00 - 194.99

N = 11      TARIFF PERCENTAGE = .91%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	182.50	7.22	170.59 - 194.41	195.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.61	.36	4.02 - 5.20	4.75
AXILLA HEIGHT	4	52.97	1.10	51.16 - 54.78	54.63
BUSTPOINT HEIGHT	5	58.71	1.23	48.67 - 52.74	52.29
BUTTOCK HEIGHT	8	36.33	1.22	34.32 - 38.34	37.55
CALF HEIGHT	10	14.24	.68	13.11 - 15.37	14.76
CERVICAL HEIGHT	71	60.61	1.11	58.79 - 62.44	62.43
CROTCH HEIGHT	7	32.93	1.12	31.09 - 34.78	34.05
KNEECAP HEIGHT	9	28.63	.69	19.50 - 21.77	21.31
SHOULDER HEIGHT	3	57.57	1.15	55.68 - 59.46	59.39
SPHYRION HEIGHT	69	2.73	.20	2.41 - 3.06	2.80
STATURE	2	69.50	1.15	67.59 - 71.41	71.50
WAIST HEIGHT	6	43.57	1.24	41.52 - 45.62	44.97
***LENGTHS***					
ACROMION - AXILLA	72	4.60	.35	4.02 - 5.18	4.76
AXILLA TO WAIST	50	9.67	.96	8.18 - 11.25	9.89
CERVICAL-ACROMION	73	3.05	.30	2.56 - 3.54	3.04
CERV. - BUSTPOINT	74	9.91	.75	8.67 - 11.14	10.13
CERVICAL-BUTTOCK	78	24.28	1.07	22.51 - 26.05	24.88
NECK TO BUSTPOINT	49	11.18	.70	10.03 - 12.33	11.48
SLEEVE INSEAM	51	19.24	.77	17.96 - 20.51	19.82
SLEEVE OUTSEAM	52	23.11	.83	21.74 - 24.49	23.83
SHOULDER TO ELBOW	13	14.43	.47	13.65 - 15.21	14.87
WAIST BACK	47	17.29	.92	15.77 - 18.81	17.72
WAIST - BUTTOCK	75	7.23	1.07	5.48 - 8.99	7.42
WAIST - CROTCH	76	10.63	.91	9.12 - 12.14	10.92
WAIST FRONT	48	15.71	.94	14.16 - 17.26	16.08
WAIST - KNEECAP	77	22.93	.96	21.34 - 24.52	23.66

\* UNITS ARE INCHES OR POUNDS

TABLE 109 (cont'd)

8 SIZE TOTAL BODY  
X-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	9.03	.39	8.38 - 9.67	9.25
ARM CIRC AT SCYE	32	16.78	.62	15.76 - 17.81	17.26
BICEPS CIRC, FLXD	33	12.35	.58	11.39 - 13.31	12.71
BUST CIRCUMFERENCE	27	39.70	1.66	36.96 - 42.44	40.75
BUST-WAIST, CIRC.	79	6.62	1.67	3.87 - 9.37	6.61
CALF CIRCUMFERENCE	39	15.76	.69	14.62 - 16.89	16.20
CHEST CIRC AT SCYE	26	37.84	1.31	35.67 - 40.01	38.76
CHEST C BELOW BUST	28	33.36	1.32	31.19 - 35.54	34.23
ELBOW CIRC FLXD	34	11.42	.49	10.61 - 12.23	11.74
FOREARM CIRC, FLXD	35	10.90	.42	10.21 - 11.59	11.18
HEEL/ANKLE CIRC.	63	13.25	.42	12.55 - 13.95	13.59
HIP CIRCUMFERENCE	30	43.45	1.39	41.16 - 45.75	44.84
KNEE CIRCUMFERENCE	38	15.64	.58	14.68 - 16.59	16.11
NECK CIRCUMFERCNC	24	13.82	.49	13.01 - 14.63	14.09
SHOULDER CIRCUMFER	25	44.01	1.36	41.76 - 46.26	45.03
UPPER THIGH CIRCUM	37	26.35	1.05	24.62 - 28.07	27.20
VERTICAL TRUNK CIR	31	67.29	1.70	64.49 - 70.10	69.20
WAIST CIRCUMFERENC	29	33.08	1.82	30.07 - 36.09	34.14
WRIST CIRCUMFERENC	36	6.29	.21	5.94 - 6.63	6.42
***ARCS***					
BACK ARC, BUST	44	18.78	.69	17.32 - 20.25	19.26
BACK ARC, HIP	46	21.65	1.00	20.00 - 23.30	22.33
BACK ARC, WAIST	45	16.39	.95	14.82 - 17.96	16.91
CROTCH LENGTH	53	32.54	1.71	29.71 - 35.36	33.55
INTERSCYE BACK	42	16.10	.82	14.74 - 17.46	16.41
INTERSCYE FRONT	43	14.15	.57	13.20 - 15.10	14.44
SHOULDER LENGTH	41	6.27	.39	5.63 - 6.92	6.40
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.56	.63	9.52 - 11.60	10.87
CHEST BREADTH	20	12.52	.50	11.69 - 13.35	12.83
HIP BREADTH	22	15.96	.65	14.89 - 17.04	16.46
SHOULDER BREADTH	23	18.39	.58	17.44 - 19.35	18.83
WAIST BREADTH	21	11.83	.70	10.67 - 12.99	12.21
WAIST DEPTH	19	8.64	.63	7.60 - 9.68	8.92

TABLE 110

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

SMALL SHORT

THE RANGE FOR STATURE 58.00 - 60.99  
 THE RANGE FOR WEIGHT 95.00 - 119.99

N = 76 TARIFF PERCENTAGE = 6.09%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.50	7.22	95.59 - 119.41	120.00
***HEIGHTS***					
ANKLE HEIGHT	68	3.93	.35	3.35 - 4.51	4.03
AXILLA HEIGHT	4	44.66	.90	43.18 - 46.14	45.91
BUSTPOINT HEIGHT	5	42.85	1.05	41.11 - 44.59	44.02
BUTTOCK HEIGHT	8	30.19	1.14	28.31 - 32.06	31.12
CALF HEIGHT	10	11.61	.66	10.52 - 12.69	12.00
CERVICALE HEIGHT	71	51.44	.89	49.96 - 52.91	52.82
CROTCH HEIGHT	7	27.42	1.02	25.74 - 29.10	28.24
KNEECAP HEIGHT	9	17.27	.63	16.23 - 18.31	17.77
SHOULDER HEIGHT	3	48.35	.94	46.80 - 49.90	49.75
SPHYRION HEIGHT	69	2.39	.20	2.06 - 2.71	2.44
STATURE	2	59.50	.87	58.07 - 60.93	61.00
WAIST HEIGHT	6	36.63	1.11	34.80 - 38.45	37.66
***LENGTHS***					
ACROMION - AXILLA	72	3.69	.35	3.11 - 4.27	3.84
AXILLA TO WAIST	50	8.59	.95	7.01 - 10.16	8.75
CERVICALE-ACROMION	73	3.08	.30	2.59 - 3.58	3.08
CERV. - BUSTPOINT	74	8.59	.75	7.35 - 9.82	8.81
CERVICALE-BUTTOCK	78	21.25	1.05	19.52 - 22.98	21.71
NECK TO BUSTPOINT	49	9.38	.70	8.23 - 10.53	9.68
SLEEVE INSEAM	51	16.37	.74	15.15 - 17.58	16.79
SLEEVE OUTSEAM	52	19.52	.79	18.22 - 20.82	20.06
SHOULDER TO ELBOW	13	12.19	.44	11.46 - 12.92	12.53
WAIST BACK	47	15.08	.91	13.59 - 16.58	15.42
WAIST - BUTTOCK	75	6.44	1.06	4.69 - 8.18	6.54
WAIST - CROTCH	76	9.20	.91	7.70 - 10.70	9.42
WAIST FRONT	48	13.67	.94	12.13 - 15.22	14.00
WAIST - KNEECAP	77	19.36	.92	17.84 - 20.87	19.89

\* UNITS ARE INCHES OR POUNDS

TABLE 110 (cont'd)

12 SIZE TOTAL BODY  
SMALL SHORT

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.71	.39	7.07 - 8.36	7.93
ARM CIRC AT SCYE	32	13.85	.62	12.82 - 14.88	14.35
BICEPS CIRC, FLXD	33	9.94	.58	8.99 - 10.89	10.36
BUST CIRCUMFERENCE	27	32.83	1.65	30.11 - 35.55	34.02
BUST-WAIST, CIRC.	79	6.75	1.67	4.00 - 9.50	6.72
CALF CIRCUMFERENCE	39	12.99	.69	11.85 - 14.12	13.46
CHEST CIRC AT SCYE	26	31.98	1.31	29.83 - 34.14	32.99
CHEST C BELOW BUST	28	27.87	1.31	25.70 - 30.03	28.81
ELBOW CIRC FLXD	34	9.56	.49	8.75 - 10.37	9.87
FOREARM CIRC, FLXD	35	9.16	.42	8.47 - 9.85	9.46
HEEL/ANKLE CIRC.	63	11.40	.42	10.71 - 12.08	11.69
HIP CIRCUMFERENCE	30	34.92	1.39	32.63 - 37.22	36.36
KNEE CIRCUMFERENCE	38	12.79	.58	11.83 - 13.74	13.26
NECK CIRCUMFERCNC	24	12.20	.49	11.39 - 13.01	12.47
SHOULDER CIRCUMFER	25	37.58	1.36	35.34 - 39.83	38.68
UPPER THIGH CIRCUM	37	20.85	1.04	19.14 - 22.56	21.79
VERTICAL TRUNK CIR	31	56.55	1.68	53.79 - 59.32	58.29
WAIST CIRCUMFERENC	29	26.08	1.81	23.09 - 29.06	27.30
WRIST CIRCUMFERENC	36	5.51	.21	5.17 - 5.86	5.64
***ARCS***					
BACK ARC, BUST	44	15.67	.88	14.21 - 17.12	16.21
BACK ARC, HIP	46	17.42	1.00	15.77 - 19.07	18.14
BACK ARC, WAIST	45	12.99	.95	11.43 - 14.55	13.58
CROTCH LENGTH	53	26.64	1.71	23.82 - 29.46	27.61
INTERSCYE BACK	42	14.30	.82	12.93 - 15.66	14.59
INTERSCYE FRONT	43	12.46	.57	11.51 - 13.41	12.74
SHOULDER LENGTH	41	5.61	.39	4.97 - 6.26	5.71
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.49	.62	7.46 - 9.52	8.86
CHEST BREADTH	20	10.55	.50	9.72 - 11.38	10.89
HIP BREADTH	22	12.96	.65	11.88 - 14.03	13.46
SHOULDER BREADTH	23	15.71	.58	14.76 - 16.67	16.16
WAIST BREADTH	21	9.37	.70	8.21 - 10.52	9.79
WAIST DEPTH	19	6.74	.63	5.71 - 7.77	7.08

TABLE 111

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

SMALL REGULAR

THE RANGE FOR STATURE 61.00 - 63.99  
 THE RANGE FOR WEIGHT 95.00 - 119.99

N = 162      TARIFF PERCENTAGE = 12.99%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.50	7.22	95.59 - 119.41	120.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.20	.35	3.62 - 4.78	4.30
AXILLA HEIGHT	4	47.14	.90	45.66 - 48.63	48.39
BUSTPOINT HEIGHT	5	45.35	1.05	43.61 - 47.09	46.52
BUTTOCK HEIGHT	8	31.90	1.14	30.03 - 33.78	32.83
CALF HEIGHT	10	12.36	.66	11.27 - 13.44	12.75
CERVICALE HEIGHT	71	53.98	.89	52.51 - 55.46	55.37
CROTCH HEIGHT	7	29.25	1.02	27.57 - 30.93	30.06
KNEECAP HEIGHT	9	18.33	.63	17.29 - 19.37	18.83
SHOULDER HEIGHT	3	50.92	.94	49.37 - 52.47	52.32
SPHYRION HEIGHT	69	2.48	.20	2.16 - 2.81	2.54
STATURE	2	62.50	.87	61.07 - 63.93	64.00
WAIST HEIGHT	6	38.84	1.11	37.02 - 40.67	39.88
***LENGTHS***					
ACROMION - AXILLA	72	3.78	.35	3.20 - 4.36	3.93
AXILLA TO WAIST	50	8.91	.95	7.34 - 10.48	9.08
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.06
CERV. - BUSTPOINT	74	8.63	.75	7.40 - 9.87	8.85
CERVICALE-BUTTOCK	78	22.08	1.05	20.35 - 23.82	22.54
NECK TO BUSTPOINT	49	9.34	.70	8.19 - 10.49	9.64
SLEEVE INSEAM	51	17.30	.74	16.09 - 18.52	17.73
SLEEVE OUTSEAM	52	20.57	.79	19.27 - 21.87	21.11
SHOULDER TO ELBOW	13	12.82	.44	12.09 - 13.55	13.16
WAIST BACK	47	15.68	.91	14.19 - 17.18	16.02
WAIST - BUTTOCK	75	6.94	1.06	5.19 - 8.68	7.04
WAIST - CROTCH	76	9.59	.91	8.09 - 11.10	9.81
WAIST FRONT	48	13.93	.94	12.39 - 15.48	14.26
WAIST - KNEECAP	77	28.51	.92	19.00 - 22.03	21.05

\* UNITS ARE INCHES OR POUNDS

TABLE 111 (cont'd)

12 SIZE TOTAL BODY  
SMALL REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.75	.39	7.10 - 8.40	7.97
ARM CIRC AT SCYE	32	13.75	.62	12.72 - 14.78	14.24
BICEPS CIRC, FLXD	33	9.60	.58	8.65 - 10.55	10.02
BUST CIRCUMFERENCE	27	32.03	1.65	29.31 - 34.75	33.22
BUST-WAIST, CIRC.	79	6.89	1.67	4.14 - 9.65	6.87
CALF CIRCUMFERENCE	39	12.80	.69	11.67 - 13.94	13.28
CHEST CIRC AT SCYE	26	31.47	1.31	29.31 - 33.63	32.47
CHEST C BELOW BUST	28	27.38	1.31	25.21 - 29.54	28.32
ELBOW CIRC FLXD	34	9.68	.49	8.87 - 10.49	9.98
FOREARM CIRC, FLXD	35	9.88	.42	8.39 - 9.77	9.37
HEEL/ANKLE CIRC.	63	11.65	.42	10.96 - 12.34	11.95
HIP CIRCUMFERENCE	30	34.64	1.39	32.35 - 36.93	36.08
KNEE CIRCUMFERENCE	38	12.76	.58	11.80 - 13.71	13.23
NECK CIRCUMFERENCE	24	12.21	.49	11.40 - 13.03	12.48
SHOULDER CIRCUMFER	25	37.19	1.36	34.95 - 39.43	38.28
UPPER THIGH CIRCUM	37	28.38	1.04	18.59 - 22.01	21.25
VERTICAL TRUNK CIR	31	57.60	1.68	54.83 - 60.37	59.34
WAIST CIRCUMFERENC	29	25.14	1.81	22.15 - 28.12	26.36
WRIST CIRCUMFERENC	36	5.56	.21	5.22 - 5.91	5.69
***ARCS***					
BACK ARC, BUST	44	15.29	.88	13.84 - 16.75	15.83
BACK ARC, HIP	46	17.18	1.00	15.53 - 18.82	17.89
BACK ARC, WAIST	45	12.53	.95	10.97 - 14.09	13.12
CROTCH LENGTH	53	26.93	1.71	24.11 - 29.76	27.90
INTERSCYE BACK	42	14.32	.82	12.96 - 15.69	14.62
INTERSCYE FRONT	43	12.55	.57	11.61 - 13.50	12.83
SHOULDER LENGTH	41	5.78	.39	5.13 - 6.42	5.88
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.16	.62	7.13 - 9.19	8.52
CHEST BREADTH	20	10.38	.50	9.55 - 11.21	10.72
HIP BREADTH	22	12.91	.65	11.83 - 13.98	13.41
SHOULDER BREADTH	23	15.62	.58	14.66 - 16.57	16.07
WAIST BREADTH	21	9.13	.70	7.98 - 10.29	9.56
WAIST DEPTH	19	6.37	.63	5.34 - 7.40	6.71

TABLE 112

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

SMALL LONG

THE RANGE FOR STATURE                    64.00 - 66.99  
 THE RANGE FOR WEIGHT                   95.00 - 119.99

N = 80      TARIFF PERCENTAGE = 6.42%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	107.50	7.22	95.59 - 119.41	120.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.47	.35	3.89 - 5.05	4.57
AXILLA HEIGHT	4	49.62	.90	48.14 - 51.11	50.87
BUSTPOINT HEIGHT	5	47.85	1.05	46.11 - 49.59	49.02
BUTTOCK HEIGHT	8	33.62	1.14	31.74 - 35.50	34.55
CALF HEIGHT	10	13.11	.66	12.02 - 14.19	13.50
CERVICALE HEIGHT	71	56.53	.89	55.06 - 58.01	57.92
CROTCH HEIGHT	7	31.07	1.02	29.39 - 32.75	31.89
KNEECAP HEIGHT	9	19.39	.63	18.35 - 20.43	19.89
SHOULDER HEIGHT	3	53.50	.94	51.95 - 55.05	54.89
SPHYRION HEIGHT	69	2.58	.28	2.25 - 2.90	2.63
STATURE	2	65.50	.87	64.07 - 66.93	67.00
WAIST HEIGHT	6	41.06	1.11	39.23 - 42.88	42.09
***LENGTHS***					
ACROMION - AXILLA	72	3.87	.35	3.29 - 4.45	4.02
AXILLA TO WAIST	50	9.24	.95	7.67 - 10.81	9.41
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	8.68	.75	7.45 - 9.92	8.90
CERVICALE-BUTTOCK	78	22.91	1.85	21.18 - 24.65	23.37
NECK TO BUSTPOINT	49	9.30	.70	8.15 - 10.45	9.60
SLEEVE INSEAM	51	18.24	.74	17.03 - 19.45	18.67
SLEEVE OUTSEAM	52	21.62	.79	20.32 - 22.92	22.16
SHOULDER TO ELBOW	13	13.45	.44	12.71 - 14.18	13.78
WAIST BACK	47	16.28	.91	14.79 - 17.78	16.62
WAIST - BUTTOCK	75	7.44	1.06	5.70 - 9.18	7.55
WAIST - CROTCH	76	9.99	.91	8.48 - 11.49	10.20
WAIST FRONT	48	14.19	.94	12.65 - 15.74	14.52
WAIST - KNEECAP	77	21.67	.92	20.15 - 23.19	22.20

\* UNITS ARE INCHES OR POUNDS

TABLE 112 (cont'd)

12 SIZE TOTAL BODY  
SMALL LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	7.79	.39	7.14 - 8.44	8.01
ARM CIRC AT SCYE	32	13.65	.62	12.62 - 14.68	14.14
BICEPS CIRC, FLXD	33	9.26	.58	8.31 - 10.21	9.58
BUST CIRCUMFERENCE	27	31.24	1.65	28.52 - 33.96	32.43
BUST-WAIST, CIRC.	79	7.04	1.67	4.29 - 9.79	7.01
CALF CIRCUMFERENCE	39	12.62	.69	11.49 - 13.76	13.10
CHEST CIRC AT SCYE	26	30.96	1.31	28.80 - 33.11	31.96
CHEST C BELOW BUST	28	26.89	1.31	24.73 - 29.05	27.83
ELBOW CIRC FLXD	34	9.80	.49	8.99 - 10.61	10.10
FOREARM CIRC, FLXD	35	9.00	.42	8.31 - 9.69	9.29
HEEL/ANKLE CIRC.	63	11.91	.42	11.22 - 12.60	12.20
HIP CIRCUMFERENCE	30	34.36	1.39	32.07 - 36.65	35.80
KNEE CIRCUMFERENCE	38	12.73	.58	11.77 - 13.68	13.20
NECK CIRCUMFERCNC	24	12.22	.49	11.41 - 13.04	12.49
SHOULDER CIRCUMFER	25	36.79	1.36	34.55 - 39.03	37.88
UPPER THIGH CIRCUM	37	19.75	1.04	18.04 - 21.46	20.70
VERTICAL TRUNK CIR	31	58.65	1.68	55.88 - 61.42	60.39
WAIST CIRCUMFERENC	29	24.20	1.81	21.22 - 27.19	25.42
WRIST CIRCUMFERENC	36	5.61	.21	5.27 - 5.96	5.74
***ARCS***					
BACK ARC, BUST	44	14.92	.88	13.46 - 16.38	15.46
BACK ARC, HIP	46	16.93	1.00	15.28 - 18.58	17.65
BACK ARC, WAIST	45	12.07	.95	10.50 - 13.63	12.66
CROTCH LENGTH	53	27.22	1.71	24.40 - 30.05	28.19
INTERSCYE BACK	42	14.35	.82	12.99 - 15.71	14.65
INTERSCYE FRONT	43	12.65	.57	11.70 - 13.59	12.92
SHOULDER LENGTH	41	5.94	.39	5.30 - 6.59	6.04
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	7.83	.62	6.80 - 8.86	8.19
CHEST BREADTH	20	10.20	.50	9.38 - 11.03	10.54
HIP BREADTH	22	12.86	.65	11.78 - 13.93	13.36
SHOULDER BREADTH	23	15.52	.58	14.57 - 16.48	15.98
WAIST BREADTH	21	8.90	.70	7.74 - 10.05	9.32
WAIST DEPTH	19	6.01	.63	4.98 - 7.04	6.34



TABLE 113

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM SHORT

THE RANGE FOR STATURE                    59.50 - 62.49  
 THE RANGE FOR WEIGHT                    120.00 - 144.99

N = 151      TARIFF PERCENTAGE = 12.11%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.50	7.22	120.59 - 144.41	145.00
***HEIGHTS***					
ANKLE HEIGHT	68	3.99	.35	3.41 - 4.57	4.09
AXILLA HEIGHT	4	45.91	.90	44.43 - 47.40	47.16
BUSTPOINT HEIGHT	5	43.94	1.05	42.20 - 45.68	45.11
BUTTOCK HEIGHT	8	31.19	1.14	29.31 - 33.06	32.12
CALF HEIGHT	10	12.02	.66	10.94 - 13.11	12.42
CERVICALE HEIGHT	71	52.94	.89	51.46 - 54.41	54.33
CROTCH HEIGHT	7	28.14	1.02	26.46 - 29.82	28.96
KNEECAP HEIGHT	9	17.74	.63	16.70 - 18.78	18.24
SHOULDER HEIGHT	3	49.85	.94	48.30 - 51.40	51.25
SPHYRION HEIGHT	69	2.44	.20	2.12 - 2.77	2.50
STATURE	2	61.00	.87	59.57 - 62.43	62.50
WAIST HEIGHT	6	37.58	1.11	35.76 - 39.41	38.62
***LENGTHS***					
ACROMION - AXILLA	72	3.94	.35	3.36 - 4.52	4.09
AXILLA TO WAIST	50	8.75	.95	7.18 - 10.32	8.91
CERVICALE-ACROMION	73	3.09	.30	2.60 - 3.58	3.08
CERV. - BUSTPOINT	74	9.00	.75	7.76 - 10.24	9.22
CERVICALE-BUTTOCK	78	21.75	1.05	20.02 - 23.49	22.21
NECK TO BUSTPOINT	49	10.00	.70	8.85 - 11.16	10.31
SLEEVE INSEAM	51	16.75	.74	15.54 - 17.97	17.18
SLEEVE OUTSEAM	52	20.07	.79	18.77 - 21.37	20.61
SHOULDER TO ELBOW	13	12.56	.44	11.83 - 13.29	12.89
WAIST BACK	47	15.45	.91	13.96 - 16.95	15.79
WAIST - BUTTOCK	75	6.40	1.06	4.65 - 8.14	6.50
WAIST - CROTCH	76	9.44	.91	7.94 - 10.94	9.66
WAIST FRONT	46	14.19	.94	12.65 - 15.74	14.52
WAIST - KNEECAP	77	19.84	.92	18.33 - 21.36	20.37

\* UNITS ARE INCHES OR POUNDS

TABLE 113 (cont'd)

12 SIZE TOTAL BODY  
MEDIUM SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.13	.39	7.48 - 8.77	8.34
ARM CIRC AT SCYE	32	14.89	.62	13.86 - 15.92	15.39
BICEPS CIRC, FLXD	33	10.95	.58	10.00 - 11.90	11.37
BUST CIRCUMFERENCE	27	35.60	1.65	32.88 - 38.32	36.79
BUST-WAIST, CIRC.	79	6.62	1.67	3.87 - 9.37	6.59
CALF CIRCUMFERENCE	39	14.02	.69	12.89 - 15.15	14.49
CHEST CIRC AT SCYE	26	34.25	1.31	32.09 - 36.41	35.25
CHEST C BELOW BUST	28	30.00	1.31	27.83 - 32.16	30.94
ELBOW CIRC FLXD	34	18.11	.49	9.30 - 18.92	10.41
FOREARM CIRC, FLXD	35	9.79	.42	9.10 - 10.48	10.09
HEEL/ANKLE CIRC.	63	11.86	.42	11.17 - 12.55	12.15
HIP CIRCUMFERENCE	30	37.94	1.39	35.65 - 40.23	39.38
KNEE CIRCUMFERENCE	38	13.76	.58	12.80 - 14.71	14.23
NECK CIRCUMFERENCE	24	12.73	.49	11.92 - 13.55	13.00
SHOULDER CIRCUMFER	25	39.97	1.36	37.73 - 42.21	41.06
UPPER THIGH CIRCUM	37	23.01	1.04	21.30 - 24.72	23.96
VERTICAL TRUNK CIR	31	59.49	1.68	56.72 - 62.26	61.22
WAIST CIRCUMFERENC	29	28.98	1.81	26.00 - 31.97	30.20
WRIST CIRCUMFERENC	36	5.74	.21	5.39 - 6.08	5.87
***ARCS***					
BACK ARC, BUST	44	16.93	.88	15.48 - 18.39	17.47
BACK ARC, HIP	46	18.98	1.00	17.33 - 20.63	19.70
BACK ARC, WAIST	45	14.40	.95	12.84 - 15.96	15.00
CROTCH LENGTH	53	28.43	1.71	25.61 - 31.25	29.39
INTERSCYE BACK	42	14.88	.82	13.52 - 16.24	15.18
INTERSCYE FRONT	43	12.97	.57	12.02 - 13.91	13.24
SHOULDER LENGTH	41	5.73	.39	5.09 - 6.37	5.83
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.38	.62	8.36 - 10.41	9.75
CHEST BREADTH	20	11.31	.50	10.48 - 12.14	11.65
HIP BREADTH	22	13.99	.65	12.91 - 15.06	14.49
SHOULDER BREADTH	23	16.66	.58	15.71 - 17.62	17.12
WAIST BREADTH	21	10.33	.70	9.18 - 11.48	10.75
WAIST DEPTH	19	7.60	.63	6.57 - 8.63	7.93

TABLE 114

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM REGULAR

THE RANGE FOR STATURE 62.50 - 65.49  
 THE RANGE FOR WEIGHT 120.00 - 144.99

N = 353      TARIFF PERCENTAGE = 28.31%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.50	7.22	120.59 - 144.41	145.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.26	.35	3.68 - 4.84	4.36
AXILLA HEIGHT	4	48.40	.90	46.91 - 49.88	49.54
BUSTPOINT HEIGHT	5	46.44	1.05	44.70 - 48.18	47.61
BUTTOCK HEIGHT	8	32.90	1.14	31.03 - 34.78	33.83
CALF HEIGHT	10	12.78	.66	11.69 - 13.86	13.17
CERVICALE HEIGHT	71	55.49	.89	54.01 - 56.96	56.87
CROTCH HEIGHT	7	29.97	1.02	28.29 - 31.65	30.79
KNEECAP HEIGHT	9	18.80	.63	17.76 - 19.84	19.30
SHOULDER HEIGHT	3	52.42	.94	50.87 - 53.97	53.82
SPHYRION HEIGHT	69	2.54	.20	2.21 - 2.87	2.59
STATURE	2	64.00	.87	62.57 - 65.43	65.50
WAIST HEIGHT	6	39.80	1.11	37.97 - 41.63	40.83
***LENGTHS***					
ACROMION - AXILLA	72	4.03	.35	3.45 - 4.61	4.17
AXILLA TO WAIST	50	9.08	.95	7.51 - 10.65	9.24
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.55	3.06
CERV. - BUSTPOINT	74	9.05	.75	7.81 - 10.28	9.26
CERVICALE-BUTTOCK	78	22.58	1.05	20.85 - 24.32	23.04
NECK TO BUSTPOINT	49	9.96	.70	8.81 - 11.12	10.27
SLEEVE INSEAM	51	17.69	.74	16.47 - 18.90	18.11
SLEEVE OUTSEAM	52	21.13	.79	19.83 - 22.43	21.67
SHOULDER TO ELBOW	13	13.18	.44	12.45 - 13.91	13.52
WAIST BACK	47	16.05	.91	14.56 - 17.55	16.39
WAIST - BUTTOCK	75	6.90	1.06	5.15 - 8.64	7.00
WAIST - CROTCH	76	9.83	.91	8.33 - 11.33	10.05
WAIST FRONT	48	14.45	.94	12.91 - 16.00	14.78
WAIST - KNEECAP	77	21.80	.92	19.48 - 22.51	21.53

\* UNITS ARE INCHES OR POUNDS

TABLE 114 (cont'd)

12 SIZE TOTAL BODY  
MEDIUM REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.17	.39	7.52 - 8.81	8.38
ARM CIRC AT SCYE	32	14.79	.62	13.76 - 15.82	15.28
BICEPS CIRC, FLXD	33	10.61	.58	9.66 - 11.56	11.03
BUST CIRCUMFERENCE	27	34.81	1.65	32.09 - 37.53	36.00
BUST-WAIST, CIRC.	79	6.76	1.67	4.01 - 9.51	6.73
CALF CIRCUMFERENCE	39	13.84	.69	12.71 - 14.97	14.31
CHEST CIRC AT SCYE	26	33.74	1.31	31.58 - 35.89	34.74
CHEST C BELOW BUST	28	29.51	1.31	27.35 - 31.67	30.45
ELBOW CIRC FLXD	34	10.23	.49	9.42 - 11.04	10.53
FOREARM CIRC, FLXD	35	9.71	.42	9.02 - 10.40	10.00
HEEL/ANKLE CIRC.	63	12.11	.42	11.43 - 12.80	12.41
HIP CIRCUMFERENCE	30	37.66	1.39	35.37 - 39.95	39.09
KNEE CIRCUMFERENCE	38	13.73	.58	12.77 - 14.68	14.20
NECK CIRCUMFERENCE	24	12.75	.49	11.93 - 13.56	13.01
SHOULDER CIRCUMFER	25	39.57	1.36	37.33 - 41.81	40.66
UPPER THIGH CIRCUM	37	22.47	1.04	20.76 - 24.18	23.41
VERTICAL TRUNK CIR	31	60.54	1.68	57.77 - 63.31	62.27
WAIST CIRCUMFERENC	29	28.05	1.81	25.86 - 31.03	29.26
WRIST CIRCUMFERENC	36	5.79	.21	5.44 - 6.13	5.92
***ARCS***					
BACK ARC, BUST	44	16.56	.88	15.10 - 18.02	17.10
BACK ARC, HIP	46	18.74	1.00	17.09 - 20.39	19.45
BACK ARC, WAIST	45	13.94	.95	12.38 - 15.50	14.53
CROTCH LENGTH	53	28.72	1.71	25.90 - 31.54	29.69
INTERSCYE BACK	42	14.91	.82	13.55 - 16.27	15.21
INTERSCYE FRONT	43	13.06	.57	12.11 - 14.01	13.34
SHOULDER LENGTH	41	5.90	.39	5.25 - 6.54	6.00
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.05	.62	8.02 - 10.08	9.42
CHEST BREADTH	20	11.14	.50	10.31 - 11.97	11.48
HIP BREADTH	22	13.94	.65	12.86 - 15.02	14.44
SHOULDER BREADTH	23	16.57	.58	15.62 - 17.52	17.02
WAIST BREADTH	21	10.10	.70	8.94 - 11.25	10.52
WAIST DEPTH	19	7.23	.63	6.20 - 8.26	7.57

TABLE 115

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## MEDIUM LONG

THE RANGE FOR STATURE                    65.50 - 68.49  
 THE RANGE FOR HEIGHT                   120.00 - 144.99

N = 145      TARIFF PERCENTAGE = 11.63%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	132.50	7.22	120.59 - 144.41	145.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.53	.35	3.95 - 5.11	4.63
AXILLA HEIGHT	4	50.88	.90	49.39 - 52.36	52.13
BUSTPOINT HEIGHT	5	48.94	1.05	47.20 - 50.68	50.11
BUTTOCK HEIGHT	8	34.62	1.14	32.74 - 36.50	35.55
CALF HEIGHT	10	13.53	.66	12.44 - 14.61	13.92
CERVICALE HEIGHT	71	58.03	.89	56.56 - 59.51	59.42
CROTCH HEIGHT	7	31.79	1.02	30.12 - 33.47	32.61
KNEECAP HEIGHT	9	19.86	.63	18.82 - 20.90	20.36
SHOULDER HEIGHT	3	55.80	.94	53.45 - 56.55	56.39
SPHYRION HEIGHT	69	2.64	.20	2.31 - 2.96	2.69
STATURE	2	67.00	.87	65.57 - 68.43	68.50
WAIST HEIGHT	6	42.02	1.11	40.19 - 43.84	43.05
***LENGTHS***					
ACROMION - AXILLA	72	4.12	.35	3.54 - 4.70	4.26
AXILLA TO WAIST	50	9.40	.95	7.83 - 10.98	9.57
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.03
CERV. - BUSTPOINT	74	9.89	.75	7.86 - 10.33	9.31
CERVICALE-BUTTOCK	78	23.42	1.05	21.68 - 25.15	23.88
NECK TO BUSTPOINT	49	9.93	.70	8.77 - 11.08	10.23
SLEEVE INSEAM	51	18.62	.74	17.41 - 19.84	19.05
SLEEVE OUTSEAM	52	22.18	.79	20.88 - 23.48	22.72
SHOULDER TO ELBOW	13	13.81	.44	13.08 - 14.54	14.15
WAIST BACK	47	16.65	.91	15.16 - 18.15	16.99
WAIST - BUTTOCK	75	7.40	1.06	5.65 - 9.14	7.50
WAIST - CROTCH	76	10.22	.91	8.72 - 11.72	10.44
WAIST FRONT	48	14.71	.94	13.17 - 16.26	15.04
WAIST - KNEECAP	77	22.16	.92	20.64 - 23.67	22.69

\* UNITS ARE INCHES OR POUNDS

TABLE 115 (cont'd)

12 SIZE TOTAL BODY  
MEDIUM LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.21	.39	7.56 - 8.85	8.42
ARM CIRC AT SCYE	32	14.69	.62	13.66 - 15.72	15.18
BICEPS CIRC, FLXD	33	10.27	.58	9.32 - 11.22	10.69
BUST CIRCUMFERENCE	27	34.01	1.65	31.29 - 36.73	35.20
BUST-WAIST, CIRC.	79	6.91	1.67	4.16 - 9.66	6.88
CALF CIRCUMFERENCE	39	13.66	.69	12.53 - 14.79	14.13
CHEST CIRC AT SCYE	26	33.22	1.31	31.06 - 35.38	34.23
CHEST C BELOW BUST	28	29.02	1.31	26.86 - 31.18	29.96
ELBOW CIRC FLXD	34	10.35	.49	9.54 - 11.15	10.65
FOREARM CIRC, FLXD	35	9.63	.42	8.94 - 10.32	9.92
HEEL/ANKLE CIRC.	63	12.37	.42	11.68 - 13.06	12.66
HIP CIRCUMFERENCE	30	37.37	1.39	35.08 - 39.67	38.81
KNEE CIRCUMFERENCE	38	13.70	.58	12.74 - 14.65	14.17
NECK CIRCUMFERCNC	24	12.76	.49	11.94 - 13.57	13.03
SHOULDER CIRCUMFER	25	39.17	1.36	36.93 - 41.42	40.27
UPPER THIGH CIRCUM	37	21.92	1.04	20.21 - 23.63	22.87
VERTICAL TRUNK CIR	31	61.59	1.68	58.82 - 64.36	63.32
WAIST CIRCUMFERENC	29	27.11	1.81	24.12 - 30.09	28.33
WRIST CIRCUMFERENC	36	5.84	.21	5.50 - 6.18	5.97
***ARCS***					
BACK ARC, BUST	44	16.19	.88	14.73 - 17.64	16.73
BACK ARC, HIP	46	18.49	1.00	16.84 - 20.14	19.21
BACK ARC, WAIST	45	13.48	.95	11.92 - 15.04	14.07
CROTCH LENGTH	53	29.01	1.71	26.19 - 31.83	29.98
INTERSCYE BACK	42	14.94	.82	13.58 - 16.30	15.24
INTERSCYE FRONT	43	13.15	.57	12.20 - 14.10	13.43
SHOULDER LENGTH	41	6.06	.39	5.42 - 6.70	6.16
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	8.72	.62	7.69 - 9.75	9.09
CHEST BREADTH	20	10.97	.50	10.14 - 11.80	11.30
HIP BREADTH	22	13.89	.65	12.81 - 14.97	14.39
SHOULDER BREADTH	23	16.48	.58	15.52 - 17.43	16.93
WAIST BREADTH	21	9.86	.70	8.71 - 11.02	10.28
WAIST DEPTH	19	6.86	.63	5.83 - 7.90	7.20

TABLE 116

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE SHORT

THE RANGE FOR STATURE 61.00 - 63.99  
 THE RANGE FOR WEIGHT 145.00 - 169.99

N = 41      TARIFF PERCENTAGE = 3.29%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	157.50	7.22	145.59 - 169.41	170.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.05	.35	3.47 - 4.63	4.15
AXILLA HEIGHT	4	47.17	.90	45.68 - 48.65	48.41
BUSTPOINT HEIGHT	5	45.83	1.05	43.29 - 46.77	46.20
BUTTOCK HEIGHT	8	32.19	1.14	30.31 - 34.06	33.12
CALF HEIGHT	10	12.44	.66	11.36 - 13.53	12.84
CERVICALE HEIGHT	71	54.44	.89	52.96 - 55.92	55.83
CROTCH HEIGHT	7	28.86	1.02	27.19 - 30.54	29.68
KNEECAP HEIGHT	9	18.22	.63	17.17 - 19.26	18.72
SHOULDER HEIGHT	3	51.35	.94	49.80 - 52.90	52.75
SPHYRION HEIGHT	69	2.50	.20	2.17 - 2.83	2.55
STATURE	2	62.50	.87	61.07 - 63.93	64.00
WAIST HEIGHT	6	38.54	1.11	36.72 - 40.37	39.58
***LENGTHS***					
ACROMION - AXILLA	72	4.19	.35	3.61 - 4.76	4.33
AXILLA TO WAIST	50	8.91	.95	7.34 - 10.48	9.07
CERVICALE-ACROMION	73	3.89	.30	2.60 - 3.58	3.08
CERV. - BUSTPOINT	74	9.41	.75	8.18 - 10.65	9.63
CERVICALE-BUTTOCK	78	22.25	1.05	20.52 - 23.99	22.71
NECK TO BUSTPOINT	49	10.63	.70	9.48 - 11.78	10.93
SLEEVE INSEAM	51	17.14	.74	15.92 - 18.35	17.56
SLEEVE OUTSEAM	52	20.63	.79	19.33 - 21.93	21.17
SHOULDER TO ELBOW	13	12.92	.44	12.19 - 13.65	13.26
WAIST BACK	47	15.82	.91	14.32 - 17.31	16.15
WAIST - BUTTOCK	75	6.36	1.06	4.61 - 8.10	6.46
WAIST - CROTCH	76	9.68	.91	8.18 - 11.18	9.90
WAIST FRONT	48	14.71	.94	13.17 - 16.26	15.04
WAIST - KNEECAP	77	20.33	.92	18.81 - 21.84	20.86

\* UNITS ARE INCHES OR POUNDS

TABLE 116 (cont'd)

12 SIZE TOTAL BODY  
LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
<b>***CIRCUMFERENCES***</b>					
ANKLE CIRCUMFERENC	40	8.54	.39	7.89 - 9.19	8.76
ARM CIRC AT SCYE	32	15.93	.62	14.90 - 16.96	16.42
BICEPS CIRC, FLXD	33	11.96	.58	11.01 - 12.91	12.38
BUST CIRCUMFERENCE	27	38.38	1.65	35.66 - 41.10	39.57
BUST-WAIST, CIRC.	79	6.49	1.67	3.74 - 9.24	6.46
CALF CIRCUMFERENCE	39	15.05	.69	13.92 - 16.19	15.53
CHEST CIRC AT SCYE	26	36.52	1.31	34.36 - 38.67	37.52
CHEST C BELOW BUST	28	32.13	1.31	29.97 - 34.29	33.07
ELBOW CIRC FLXD	34	10.66	.49	9.85 - 11.47	10.96
FOREARM CIRC, FLXD	35	10.42	.42	9.73 - 11.11	10.72
HEEL/ANKLE CIRC.	63	12.32	.42	11.63 - 13.01	12.61
HIP CIRCUMFERENCE	30	40.96	1.39	38.66 - 43.25	42.39
KNEE CIRCUMFERENCE	38	14.72	.58	13.77 - 15.68	15.20
NECK CIRCUMFERCNGE	24	13.27	.49	12.45 - 14.08	13.54
SHOULDER CIRCUMFER	25	42.35	1.36	40.11 - 44.59	43.44
UPPER THIGH CIRCUM	37	25.18	1.04	23.47 - 26.89	26.13
VERTICAL TRUNK CIR	31	62.43	1.68	59.66 - 65.20	64.16
WAIST CIRCUMFERENC	29	31.89	1.81	28.91 - 34.88	33.11
WRIST CIRCUMFERENC	36	5.97	.21	5.62 - 6.31	6.09
<b>***ARCS***</b>					
BACK ARC, BUST	44	18.20	.88	16.74 - 19.66	18.74
BACK ARC, HIP	46	20.54	1.00	18.89 - 22.19	21.26
BACK ARC, WAIST	45	15.82	.95	14.26 - 17.38	16.41
CROTCH LENGTH	53	30.22	1.71	27.39 - 33.04	31.18
INTERSCYE BACK	42	15.46	.82	14.10 - 16.82	15.76
INTERSCYE FRONT	43	13.47	.57	12.52 - 14.42	13.75
SHOULDER LENGTH	41	5.85	.39	5.21 - 6.49	5.95
<b>***DEPTHS AND BREADTHS***</b>					
BUST DEPTH	18	10.28	.62	9.25 - 11.31	10.64
CHEST BREADTH	28	12.07	.50	11.25 - 12.90	12.41
HIP BREADTH	22	15.02	.65	13.95 - 16.10	15.53
SHOULDER BREADTH	23	17.61	.58	16.66 - 18.57	18.07
WAIST BREADTH	21	11.29	.70	10.14 - 12.45	11.72
WAIST DEPTH	19	8.46	.63	7.42 - 9.49	8.79



TABLE 117

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE REGULAR

THE RANGE FOR STATURE                      64.00 - 66.99  
 THE RANGE FOR HEIGHT                      145.00 - 169.99

N = 122      TARIFF PERCENTAGE = 9.78%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
HEIGHT	1	157.50	7.22	145.59 - 169.41	170.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.32	.35	3.74 - 4.90	4.42
AXILLA HEIGHT	4	49.65	.90	48.16 - 51.13	50.90
BUSTPOINT HEIGHT	5	47.53	1.05	45.79 - 49.27	48.70
BUTTOCK HEIGHT	8	33.90	1.14	32.03 - 35.78	34.83
CALF HEIGHT	10	13.19	.66	12.11 - 14.28	13.59
CERVICALE HEIGHT	71	56.99	.89	55.51 - 58.46	58.38
CROTCH HEIGHT	7	30.69	1.02	29.01 - 32.37	31.51
KNEECAP HEIGHT	9	19.28	.63	18.23 - 20.32	19.78
SHOULDER HEIGHT	3	53.92	.94	52.37 - 55.47	55.32
SPHYRION HEIGHT	69	2.60	.20	2.27 - 2.92	2.65
STATURE	2	65.50	.87	64.07 - 66.93	67.00
WAIST HEIGHT	6	40.76	1.11	38.93 - 42.59	41.79
***LENGTHS***					
ACROMION - AXILLA	72	4.28	.35	3.70 - 4.85	4.42
AXILLA TO WAIST	50	9.24	.95	7.67 - 10.81	9.40
CERVICALE-ACROMION	73	3.06	.30	2.57 - 3.56	3.06
CERV. - BUSTPOINT	74	9.46	.75	8.22 - 10.69	9.68
CERVICALE-BUTTOCK	78	23.09	1.05	21.35 - 24.82	23.55
NECK TO BUSTPOINT	49	18.59	.70	9.44 - 11.74	10.89
SLEEVE INSEAM	51	18.07	.74	16.86 - 19.29	18.50
SLEEVE OUTSEAM	52	21.68	.79	20.38 - 22.98	22.22
SHOULDER TO ELBOW	13	13.55	.44	12.81 - 14.28	13.88
WAIST BACK	47	16.42	.91	14.92 - 17.92	16.75
WAIST - BUTTOCK	75	6.86	1.06	5.11 - 8.60	6.96
WAIST - CROTCH	76	10.07	.91	8.57 - 11.57	10.29
WAIST FRONT	48	14.97	.94	13.43 - 16.52	15.30
WAIST - KNEECAP	77	21.48	.92	19.97 - 23.00	22.02

\* UNITS ARE INCHES OR POUNDS

TABLE 117 (cont'd)

12 SIZE TOTAL BODY  
LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.58	.39	7.93 - 9.23	8.80
ARM CIRC AT SCYE	32	15.83	.62	14.80 - 16.86	16.32
BICEPS CIRC, FLXD	33	11.62	.58	10.67 - 12.57	12.04
BUST CIRCUMFERENCE	27	37.58	1.65	34.86 - 40.30	38.77
BUST-WAIST, CIRC.	79	6.63	1.67	3.88 - 9.38	6.60
CALF CIRCUMFERENCE	39	14.87	.69	13.74 - 16.01	15.35
CHEST CIRC AT SCYE	26	36.00	1.31	33.85 - 38.16	37.01
CHEST C BELOW BUST	28	31.64	1.31	29.48 - 33.80	32.58
ELBOW CIRC FLXD	34	10.78	.49	9.97 - 11.58	11.08
FOREARM CIRC, FLXD	35	10.34	.42	9.65 - 11.03	10.63
HEEL/ANKLE CIRC.	63	12.57	.42	11.89 - 13.26	12.87
HIP CIRCUMFERENCE	30	40.67	1.39	38.38 - 42.97	42.11
KNEE CIRCUMFERENCE	38	14.69	.58	13.74 - 15.65	15.17
NECK CIRCUMFERCNC	24	13.28	.49	12.46 - 14.09	13.55
SHOULDER CIRCUMFER	25	41.96	1.36	39.71 - 44.20	43.05
UPPER THIGH CIRCUM	37	24.64	1.04	22.92 - 26.35	25.58
VERTICAL TRUNK CIR	31	63.48	1.68	60.71 - 66.25	65.21
WAIST CIRCUMFERENC	29	30.95	1.81	27.97 - 33.94	32.17
WRIST CIRCUMFERENC	36	6.02	.21	5.67 - 6.36	6.14
***ARCS***					
BACK ARC, BUST	44	17.83	.88	16.37 - 19.28	18.37
BACK ARC, HIP	46	20.30	1.00	18.65 - 21.95	21.01
BACK ARC, WAIST	45	15.36	.95	13.80 - 16.92	15.95
CROTCH LENGTH	53	30.51	1.71	27.68 - 33.33	31.47
INTERSCYE BACK	42	15.49	.82	14.13 - 16.85	15.79
INTERSCYE FRONT	43	13.56	.57	12.62 - 14.51	13.84
SHOULDER LENGTH	41	6.02	.39	5.37 - 6.66	6.12
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.95	.62	8.92 - 10.97	10.31
CHEST BREADTH	20	11.90	.50	11.07 - 12.73	12.24
HIP BREADTH	22	14.97	.65	13.90 - 16.05	15.48
SHOULDER BREADTH	23	17.52	.58	16.57 - 18.47	17.97
WAIST BREADTH	21	11.06	.70	9.91 - 12.21	11.48
WAIST DEPTH	19	8.09	.63	7.06 - 9.12	8.43

TABLE 118

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## LARGE LONG

THE RANGE FOR STATURE 67.00 - 69.99  
 THE RANGE FOR WEIGHT 145.00 - 169.99

N = 85      TARIFF PERCENTAGE = 6.82%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	157.50	7.22	145.59 - 169.41	178.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.59	.35	4.01 - 5.17	4.69
AXILLA HEIGHT	4	52.13	.90	50.65 - 53.62	53.38
BUSTPOINT HEIGHT	5	50.83	1.05	48.29 - 51.77	51.20
BUTTOCK HEIGHT	8	35.62	1.14	33.74 - 37.50	36.55
CALF HEIGHT	10	13.95	.66	12.86 - 15.03	14.34
CERVICALE HEIGHT	71	59.54	.89	58.06 - 61.01	60.92
CROTCH HEIGHT	7	32.52	1.02	30.84 - 34.19	33.33
KNEECAP HEIGHT	9	20.34	.63	19.29 - 21.38	20.84
SHOULDER HEIGHT	3	56.50	.94	54.95 - 58.05	57.89
SPHYRION HEIGHT	69	2.69	.20	2.37 - 3.02	2.75
STATURE	2	68.50	.87	67.07 - 69.93	70.00
WAIST HEIGHT	6	42.98	1.11	41.15 - 44.80	44.01
***LENGTHS***					
ACROMION - AXILLA	72	4.36	.35	3.79 - 4.94	4.51
AXILLA TO WAIST	50	9.57	.95	8.00 - 11.14	9.73
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.04
CERV. - BUSTPOINT	74	9.50	.75	8.27 - 10.74	9.72
CERVICALE-BUTTOCK	78	23.92	1.05	22.18 - 25.65	24.38
NECK TO BUSTPOINT	49	10.55	.70	9.40 - 11.70	10.85
SLEEVE INSEAM	51	19.01	.74	17.80 - 20.22	19.44
SLEEVE OUTSEAM	52	22.73	.79	21.43 - 24.03	23.27
SHOULDER TO ELBOW	13	14.17	.44	13.44 - 14.90	14.51
WAIST BACK	47	17.02	.91	15.53 - 18.52	17.36
WAIST - BUTTOCK	75	7.36	1.06	5.61 - 9.10	7.46
WAIST - CROTCH	76	10.46	.91	8.96 - 11.96	10.68
WAIST FRONT	48	15.23	.94	13.69 - 16.78	15.56
WAIST - KNEECAP	77	22.64	.92	21.12 - 24.16	23.17

\* UNITS ARE INCHES OR POUNDS

TABLE 118 (cont'd)

12 SIZE TOTAL BODY  
LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDE VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.62	.39	7.97 - 9.27	8.84
ARM CIRC AT SCYE	32	15.73	.62	14.70 - 16.76	16.22
BICEPS CIRC, FLXD	33	11.28	.58	10.33 - 12.23	11.70
BUST CIRCUMFERENCE	27	36.79	1.65	34.07 - 39.51	37.98
BUST-WAIST, CIRC.	79	6.78	1.67	4.02 - 9.53	6.75
CALF CIRCUMFERENCE	39	14.69	.69	13.56 - 15.83	15.17
CHEST CIRC AT SCYE	26	35.49	1.31	33.33 - 37.64	36.49
CHEST C BELOW BUST	28	31.15	1.31	28.99 - 33.31	32.09
ELBOW CIRC FLXD	34	10.89	.49	10.08 - 11.70	11.20
FOREARM CIRC, FLXD	35	10.26	.42	9.57 - 10.95	10.55
HEEL/ANKLE CIRC.	63	12.83	.42	12.14 - 13.52	13.12
HIP CIRCUMFERENCE	30	48.39	1.39	38.10 - 42.68	41.83
KNEE CIRCUMFERENCE	38	14.66	.58	13.71 - 15.62	15.14
NECK CIRCUMFERCNC	24	13.29	.49	12.48 - 14.10	13.56
SHOULDER CIRCUMFER	25	41.56	1.36	39.32 - 43.80	42.65
UPPER THIGH CIRCUM	37	24.09	1.04	22.38 - 25.80	25.04
VERTICAL TRUNK CIR	31	64.53	1.68	61.76 - 67.30	66.26
WAIST CIRCUMFERENC	29	30.01	1.81	27.03 - 33.00	31.23
WRIST CIRCUMFERENC	36	6.07	.21	5.72 - 6.41	6.19
***ARCS***					
BACK ARC, BUST	44	17.45	.88	16.00 - 18.91	17.99
BACK ARC, HIP	46	20.05	1.00	18.40 - 21.70	20.77
BACK ARC, WAIST	45	14.90	.95	13.34 - 16.46	15.49
CROTCH LENGTH	53	30.80	1.71	27.98 - 33.62	31.77
INTERSCYE BACK	42	15.52	.82	14.16 - 16.88	15.82
INTERSCYE FRONT	43	13.66	.57	12.71 - 14.61	13.93
SHOULDER LENGTH	41	6.18	.39	5.54 - 6.82	6.28
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	9.62	.62	8.59 - 10.64	9.98
CHEST BREADTH	20	11.73	.50	10.90 - 12.56	12.07
HIP BREADTH	22	14.92	.65	13.85 - 16.00	15.43
SHOULDER BREADTH	23	17.43	.58	16.47 - 18.38	17.88
WAIST BREADTH	21	10.83	.70	9.67 - 11.98	11.25
WAIST DEPTH	19	7.72	.63	6.69 - 8.75	8.06

TABLE 119

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## X-LARGE SHORT

THE RANGE FOR STATURE  
THE RANGE FOR WEIGHT

62.50 - 65.49  
170.00 - 194.99

N = 10      TARIFF PERCENTAGE = .80%

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	182.50	7.22	178.59 - 194.41	195.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.11	.35	3.53 - 4.69	4.21
AXILLA HEIGHT	4	48.42	.90	46.94 - 49.90	49.67
BUSTPOINT HEIGHT	5	46.12	1.05	44.38 - 47.86	47.29
BUTTOCK HEIGHT	8	33.19	1.14	31.31 - 35.06	34.12
CALF HEIGHT	10	12.86	.66	11.78 - 13.95	13.26
CERVICAL HEIGHT	71	55.94	.89	54.47 - 57.42	57.33
CROTCH HEIGHT	7	29.59	1.02	27.91 - 31.26	30.40
KNEECAP HEIGHT	9	18.69	.63	17.65 - 19.73	19.19
SHOULDER HEIGHT	3	52.85	.94	51.30 - 54.40	54.25
SPHYRION HEIGHT	69	2.56	.20	2.23 - 2.88	2.61
STATURE	2	64.00	.87	62.57 - 65.43	65.50
WAIST HEIGHT	6	39.50	1.11	37.68 - 41.33	40.54
***LENGTHS***					
ACROMION - AXILLA	72	4.43	.35	3.85 - 5.01	4.58
AXILLA TO WAIST	50	9.07	.95	7.50 - 10.64	9.23
CERVICAL-ACROMION	73	3.09	.30	2.60 - 3.58	3.09
CERV. - BUSTPOINT	74	9.82	.75	8.59 - 11.06	10.04
CERVICAL-BUTTOCK	78	22.76	1.05	21.02 - 24.49	23.21
NECK TO BUSTPOINT	49	11.26	.70	10.10 - 12.41	11.56
SLEEVE INSEAM	51	17.52	.74	16.31 - 18.74	17.95
SLEEVE OUTSEAM	52	21.19	.79	19.89 - 22.49	21.73
SHOULDER TO ELBOW	13	13.28	.44	12.55 - 14.01	13.62
WAIST BACK	47	16.19	.91	14.69 - 17.68	16.52
WAIST - BUTTOCK	75	6.32	1.06	4.57 - 8.06	6.42
WAIST - CROTCH	76	9.92	.91	8.42 - 11.42	10.13
WAIST FRONT	48	15.23	.94	13.69 - 16.78	15.56
WAIST - KNEECAP	77	20.81	.92	19.30 - 22.33	21.34

\* UNITS ARE INCHES OR POUNDS

TABLE 119 (cont'd)

12 SIZE TOTAL BODY  
X-LARGE SHORT

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.95	.39	8.31 - 9.60	9.17
ARM CIRC AT SCYE	32	16.97	.62	15.94 - 18.00	17.46
BICEPS CIRC, FLXD	33	12.97	.58	12.02 - 13.92	13.39
BUST CIRCUMFERENCE	27	41.15	1.65	38.43 - 43.87	42.34
BUST-WAIST, CIRC.	79	6.36	1.67	3.60 - 9.11	6.33
CALF CIRCUMFERENCE	39	16.09	.69	14.96 - 17.22	16.56
CHEST CIRC AT SCYE	26	38.78	1.31	36.63 - 40.94	39.79
CHEST C BELOW BUST	28	34.26	1.31	32.10 - 36.42	35.20
ELBOW CIRC FLXD	34	11.21	.49	10.40 - 12.01	11.51
FOREARM CIRC, FLXD	35	11.05	.42	10.36 - 11.74	11.35
HEEL/ANKLE CIRC.	63	12.78	.42	12.09 - 13.47	13.08
HIP CIRCUMFERENCE	30	43.97	1.39	41.68 - 46.26	45.41
KNEE CIRCUMFERENCE	38	15.69	.58	14.74 - 16.65	16.17
NECK CIRCUMFERENCE	24	13.80	.49	12.99 - 14.61	14.07
SHOULDER CIRCUMFER	25	44.74	1.36	42.49 - 46.98	45.83
UPPER THIGH CIRCUM	37	27.35	1.04	25.64 - 29.06	28.30
VERTICAL TRUNK CIR	31	65.37	1.68	62.60 - 68.14	67.10
WAIST CIRCUMFERENC	29	34.80	1.81	31.81 - 37.78	36.02
WRIST CIRCUMFERENC	36	6.19	.21	5.85 - 6.54	6.32
***ARCS***					
BACK ARC, BUST	44	19.47	.88	18.01 - 20.92	20.01
BACK ARC, HIP	46	22.10	1.00	20.45 - 23.75	22.82
BACK ARC, WAIST	45	17.23	.95	15.67 - 18.79	17.83
CROTCH LENGTH	53	32.00	1.71	29.18 - 34.83	32.97
INTERSCYE BACK	42	16.05	.82	14.69 - 17.41	16.35
INTERSCYE FRONT	43	13.98	.57	13.03 - 14.93	14.25
SHOULDER LENGTH	41	5.97	.39	5.33 - 6.61	6.07
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	11.17	.62	10.14 - 12.20	11.53
CHEST BREADTH	20	12.84	.50	12.01 - 13.67	13.17
HIP BREADTH	22	16.06	.65	14.98 - 17.13	16.56
SHOULDER BREADTH	23	18.56	.58	17.61 - 19.52	19.02
WAIST BREADTH	21	12.26	.70	11.10 - 13.41	12.68
WAIST DEPTH	19	9.31	.63	8.28 - 10.34	9.65

TABLE 120

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## X-LARGE REGULAR

THE RANGE FOR STATURE  
THE RANGE FOR WEIGHT

65.50 - 68.49  
170.00 - 194.99

N = 16      TARIFF PERCENTAGE = 1.20%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	182.50	7.22	170.59 - 194.41	195.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.38	.35	3.80 - 4.96	4.48
AXILLA HEIGHT	4	50.90	.90	49.42 - 52.39	52.15
BUSTPOINT HEIGHT	5	48.62	1.05	46.88 - 50.36	49.79
BUTTOCK HEIGHT	8	34.90	1.14	33.03 - 36.78	35.83
CALF HEIGHT	10	13.61	.66	12.53 - 14.70	14.01
CERVICALE HEIGHT	71	58.49	.89	57.01 - 59.97	59.88
CROTCH HEIGHT	7	31.41	1.02	29.73 - 33.09	32.23
KNEECAP HEIGHT	9	19.75	.63	18.71 - 20.79	20.25
SHOULDER HEIGHT	3	55.42	.94	53.87 - 56.97	56.82
SPHYRION HEIGHT	69	2.65	.20	2.33 - 2.98	2.71
STATURE	2	67.00	.87	65.57 - 68.43	68.50
WAIST HEIGHT	6	41.72	1.11	39.89 - 43.55	42.75
***LENGTHS***					
ACROMION - AXILLA	72	4.52	.35	3.94 - 5.10	4.67
AXILLA TO WAIST	50	9.40	.95	7.83 - 10.97	9.56
CERVICALE-ACROMION	73	3.07	.30	2.58 - 3.56	3.06
CERV. - BUSTPOINT	74	9.87	.75	8.63 - 11.10	10.09
CERVICALE-BUTTOCK	78	23.59	1.05	21.85 - 25.32	24.05
NECK TO BUSTPOINT	49	11.22	.70	10.06 - 12.37	11.52
SLEEVE INSEAM	51	18.46	.74	17.25 - 19.67	18.89
SLEEVE OUTSEAM	52	22.24	.79	20.94 - 23.54	22.78
SHOULDER TO ELBOW	13	13.91	.44	13.18 - 14.64	14.25
WAIST BACK	47	16.79	.91	15.29 - 18.28	17.12
WAIST - BUTTOCK	75	6.82	1.06	5.07 - 8.56	6.92
WAIST - CROTCH	76	10.31	.91	8.81 - 11.81	10.53
WAIST FRONT	48	15.49	.94	13.95 - 17.04	15.82
WAIST - KNEECAP	77	21.97	.92	20.45 - 23.48	22.50

\* UNITS ARE INCHES OR POUNDS

TABLE 120 (cont'd)

12 SIZE TOTAL BODY  
X-LARGE REGULAR

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	8.99	.39	8.34 - 9.64	9.21
ARM CIRC AT SCYE	32	16.87	.62	15.84 - 17.90	17.36
BICEPS CIRC, FLXD	33	12.63	.58	11.68 - 13.58	13.05
BUST CIRCUMFERENCE	27	40.36	1.65	37.64 - 43.08	41.55
BUST-WAIST, CIRC.	79	6.50	1.67	3.75 - 9.25	6.47
GALF CIRCUMFERENCE	39	15.91	.69	14.78 - 17.04	16.38
CHEST CIRC AT SCYE	26	38.27	1.31	36.11 - 40.43	39.27
CHEST C BELOW BUST	28	33.77	1.31	31.61 - 35.93	34.71
ELBOW CIRC FLXD	34	11.32	.49	10.51 - 12.13	11.63
FOREARM CIRC, FLXD	35	10.97	.42	10.28 - 11.66	11.26
HEEL/ANKLE CIRC.	63	13.84	.42	12.35 - 13.72	13.33
HIP CIRCUMFERENCE	30	43.69	1.39	41.40 - 45.98	45.13
KNEE CIRCUMFERENCE	38	15.66	.58	14.71 - 16.62	16.14
NECK CIRCUMFERCNC	24	13.81	.49	13.00 - 14.62	14.08
SHOULDER CIRCUMFER	25	44.34	1.36	42.10 - 46.58	45.43
UPPER THIGH CIRCUM	37	26.80	1.04	25.09 - 28.51	27.75
VERTICAL TRUNK CIR	31	66.42	1.68	63.65 - 69.19	68.15
WAIST CIRCUMFERENC	29	33.86	1.81	30.87 - 36.84	35.08
WRIST CIRCUMFERENC	36	6.24	.21	5.90 - 6.59	6.37
***ARCS***					
BACK ARC, BUST	44	19.09	.88	17.64 - 20.55	19.63
BACK ARC, HIP	46	21.86	1.00	20.21 - 23.51	22.58
BACK ARC, WAIST	45	16.77	.95	15.21 - 18.33	17.37
CROTCH LENGTH	53	32.29	1.71	29.47 - 35.12	33.26
INTERSCYE BACK	42	16.08	.82	14.72 - 17.44	16.38
INTERSCYE FRONT	43	14.07	.57	13.12 - 15.02	14.35
SHOULDER LENGTH	41	6.13	.39	5.49 - 6.78	6.24
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.84	.62	9.81 - 11.87	11.20
CHEST BREADTH	20	12.66	.50	11.84 - 13.49	13.00
HIP BREADTH	22	16.01	.65	14.93 - 17.08	16.51
SHOULDER BREADTH	23	18.47	.58	17.52 - 19.42	18.92
WAIST BREADTH	21	12.02	.70	10.87 - 13.18	12.45
WAIST DEPTH	19	8.95	.63	7.92 - 9.98	9.28



TABLE 121

## 12 SIZE PROGRAM FOR THE TOTAL BODY\*

## X-LARGE LONG

THE RANGE FOR STATURE 68.50 - 71.49  
 THE RANGE FOR WEIGHT 170.00 - 194.99

N = 6      TARIFF PERCENTAGE = .48%

	VAR NO	MID-SIZE VALUE	SZ-SD	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
WEIGHT	1	182.50	7.22	170.59 - 194.41	195.00
***HEIGHTS***					
ANKLE HEIGHT	68	4.65	.35	4.07 - 5.23	4.75
AXILLA HEIGHT	4	53.38	.90	51.90 - 54.87	54.63
BUSTPOINT HEIGHT	5	51.12	1.05	49.38 - 52.86	52.29
BUTTOCK HEIGHT	8	36.62	1.14	34.74 - 38.50	37.55
CALF HEIGHT	10	14.36	.66	13.28 - 15.45	14.76
CERVICALE HEIGHT	71	61.04	.89	59.56 - 62.51	62.43
CROTCH HEIGHT	7	33.24	1.02	31.56 - 34.91	34.05
KNEECAP HEIGHT	9	20.81	.63	19.77 - 21.85	21.31
SHOULDER HEIGHT	3	58.00	.94	56.45 - 59.55	59.39
SPHYRION HEIGHT	69	2.75	.20	2.42 - 3.08	2.80
STATURE	2	70.00	.87	68.57 - 71.43	71.50
WAIST HEIGHT	6	43.94	1.11	42.11 - 45.76	44.97
***LENGTHS***					
ACROMION - AXILLA	72	4.61	.35	4.03 - 5.19	4.76
AXILLA TO WAIST	50	9.73	.95	8.16 - 11.30	9.89
CERVICALE-ACROMION	73	3.04	.30	2.55 - 3.53	3.04
CERV. - BUSTPOINT	74	9.92	.75	8.68 - 11.15	10.13
CERVICALE-BUTTOCK	78	24.42	1.05	22.69 - 26.15	24.88
NECK TO BUSTPOINT	49	11.18	.70	10.02 - 12.33	11.48
SLEEVE INSEAM	51	19.39	.74	18.18 - 20.61	19.82
SLEEVE OUTSEAM	52	23.29	.79	21.99 - 24.59	23.83
SHOULDER TO ELBOW	13	14.54	.44	13.80 - 15.27	14.87
WAIST BACK	47	17.39	.91	15.89 - 18.89	17.72
WAIST - BUTTOCK	75	7.32	1.06	5.57 - 9.06	7.42
WAIST - CROTCH	76	10.70	.91	9.20 - 12.20	10.92
WAIST FRONT	48	15.75	.94	14.21 - 17.30	16.08
WAIST - KNEECAP	77	23.13	.92	21.61 - 24.64	23.66

\* UNITS ARE INCHES OR POUNDS

TABLE 121 (cont'd)

12 SIZE TOTAL BODY  
X-LARGE LONG

	VAR NO	MID-SIZE VALUE	SZ-SO	RANGE TO BE ACCOMMODATED	RECOM- MENDED VALUE
***CIRCUMFERENCES***					
ANKLE CIRCUMFERENC	40	9.03	.39	8.38 - 9.68	9.25
ARM CIRC AT SCYE	32	16.77	.62	15.74 - 17.80	17.26
BICEPS CIRC, FLXD	33	12.29	.58	11.34 - 13.24	12.71
BUST CIRCUMFERENCE	27	39.56	1.65	36.84 - 42.28	40.75
BUST-WAIST, CIRC.	79	6.64	1.67	3.89 - 9.39	6.61
CALF CIRCUMFERENCE	39	15.73	.69	14.60 - 16.86	16.20
CHEST CIRC AT SCYE	26	37.75	1.31	35.60 - 39.91	38.76
CHEST C BELOW BUST	28	33.28	1.31	31.12 - 35.45	34.23
ELBOW CIRC FLXD	34	11.44	.49	10.63 - 12.25	11.74
FOREARM CIRC, FLXD	35	10.89	.42	10.20 - 11.58	11.18
HEEL/ANKLE CIRC.	63	13.29	.42	12.60 - 13.98	13.59
HIP CIRCUMFERENCE	30	43.41	1.39	41.12 - 45.70	44.84
KNEE CIRCUMFERENCE	38	15.63	.58	14.68 - 16.59	16.11
NECK CIRCUMFERCNC	24	13.82	.49	13.01 - 14.64	14.09
SHOULDER CIRCUMFER	25	43.94	1.36	41.70 - 46.18	45.03
UPPER THIGH CIRCUM	37	26.26	1.04	24.55 - 27.97	27.20
VERTICAL TRUNK CIR	31	67.47	1.68	64.70 - 70.24	69.20
WAIST CIRCUMFERENC	29	32.92	1.81	29.93 - 35.90	34.14
WRIST CIRCUMFERENC	36	6.29	.21	5.95 - 6.64	6.42
***ARCS***					
BACK ARC, BUST	44	18.72	.88	17.27 - 20.18	19.26
BACK ARC, HIP	46	21.61	1.00	19.96 - 23.26	22.33
BACK ARC, WAIST	45	16.31	.95	14.75 - 17.87	16.91
CROTCH LENGTH	53	32.59	1.71	29.76 - 35.41	33.55
INTERSCYE BACK	42	16.11	.82	14.75 - 17.47	16.41
INTERSCYE FRONT	43	14.16	.57	13.22 - 15.11	14.44
SHOULDER LENGTH	41	6.30	.39	5.66 - 6.94	6.40
***DEPTHS AND BREADTHS***					
BUST DEPTH	18	10.51	.62	9.48 - 11.54	10.87
CHEST BREADTH	20	12.49	.50	11.66 - 13.32	12.83
HIP BREADTH	22	15.96	.65	14.88 - 17.03	16.46
SHOULDER BREADTH	23	18.38	.58	17.42 - 19.33	18.83
WAIST BREADTH	21	11.79	.70	10.63 - 12.94	12.21
WAIST DEPTH	19	8.58	.63	7.55 - 9.61	8.92

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## APPENDIX A

### GLOSSARY

ABDUCTED: held away from.

ACROMION: the bony process which forms the lateral extension of the spine; the tip of the shoulder.

ANTERIOR: pertaining to the front of the body, as opposed to posterior.

AXILLA: the armpit; axillary, pertaining to the armpit.

AXILLARY FOLD, POSTERIOR: the furrow formed by the juncture of the upper arm and the back.

BICEPS BRACHII: the large protruding muscle mass on the anterior surface of the upper arm.

BUTTOCK LEVEL: the level of the maximum posterior protrusion of the right buttock.

CERVICALE: the protrusion of the spinal column at the base of the neck, caused by the tip of the spine of the 7th cervical vertebra.

DELTOID MUSCLE: the large muscle on the lateral border of the upper arm in the shoulder region.

DISTAL: the end of a body segment farthest from the head or area of attachment; opposed to proximal.

GLUTEAL FURROW: the furrow formed by the junction of the buttock with the back of the leg.

INSEAM: a tailoring term indicating the inside length of sleeve or trouser, measured on the medial side of arm or leg.

LATERAL: lying toward the sides of the body; opposed to medial.

MALLEOLUS: the bony protrusion, either lateral or medial, of the ankle.

MEAN: denotes an average value; the sum of a given set of values divided by the number of values.

MEDIAL: lying near the midsagittal plane of the body; opposed to lateral.

MIDAXILLARY PLANE: the vertical plane passing through the centers of the armpits; midaxillary lines--the intersection of the torso and the mid-axillary plane.

MIDSAGITTAL PLANE: the vertical plane which divides the body into essentially equal right and left sections.

PATELLA: the kneecap.

POSTERIOR: pertaining to the back of the body, as opposed to anterior.

PROXIMAL: the end of a body segment nearest the head; opposed to distal.

RADIUS: the bone of the lower arm which extends from the lateral side of the elbow to the wrist at the base of the thumb; radial, pertaining to radius.

SCAPULA: shoulder blade.

SCYE: a tailoring term used to designate the armhole of a garment. Here it is used to refer to a point on either side of the body marking the upper end of the posterior axillary fold.

SPHYRION: the most distal point of the tibia; it lies at the tip of the malleolar process.

STANDARD DEVIATION: a basic measure of variability indicating the extent to which values cluster around a mean.

STYLION: the point in the wrist region at the distal end of the radius.

TIBIA: shin bone.

## APPENDIX B

### REGRESSION EQUATIONS AND PROCEDURES FOR COMPUTING SIZE VALUES

Statistics to describe each size in each program were computed with the help of regression equations in order to best represent each size. The regression equations used were of the form,  $z = Ax + By + C$ , where  $z$  is the predicted dimension and  $x$  and  $y$  are the key dimensions. (The actual equations used, rounded to a manageable size, appear in Tables 122 through 124 at the end of this appendix.) If, for example, crotch height were to be predicted from a known stature and weight, then the equation would appear as follows:

$$\text{Crotch Height} = (A * \text{Stature}) + (B * \text{Weight}) + C$$

The values  $A$ ,  $B$ , and  $C$  are computed using means, standard deviations, and correlation coefficients between the three dimensions from a given sample, in this case the 1977 Army women's sample. The equations are always specific to the sample from which they are derived. After computing these values for the 1977 Army women, the equation appears as follows:

$$\text{Crotch Height} = (.609 * \text{Stature}) + (-.008 * \text{Weight}) - 7.96$$

This equation can then be used to predict crotch height at any level of stature and weight for the U.S. Army women or for a comparable sample. The values listed in the sizing tables in Chapter IV were derived from such equations for each dimension from the midpoint of the key dimension categories. They represent the most likely value for a person at the midpoint of the size category. To compute the value for crotch height in the small regular size of the 6-size total body program, for example, the midpoint stature and weight are used as predictors in the above equation. The range for stature within that size is from 58.5 to 62.99 inches so the midpoint stature is approximately 60.75 inches. The range for weight is from 100 to 129.99 pounds, so the midpoint weight is approximately 115 pounds. Inserting these values as predictors into the equation gives:

$$\text{Crotch Height} = (.609 * 60.75) + (-.008 * 115) - 7.96$$

$$\text{Crotch Height} = 28.11675$$

This value rounds to 28.12 inches which is the mid-size value found on Table 96 in Chapter IV.

Regression equations are accompanied by an error term referred to as the standard error of estimate (SE EST), which is computed from the standard deviations and correlation coefficients. This term identifies the amount of variation in size to be expected about the most likely value. It functions much like the standard error of the mean for the total sample. The SE EST for the above equation is equal to .868.

To create the size standard deviation (SZ-SD) which accompanies the mid-size value on the sizing tables, the SE EST was employed. The formula for computing the SZ-SD is as follows:

$$SZ\ SD_{(z)} = \sqrt{SE\ EST^2 + \frac{(A * SIZE\ WIDTH_{(x)})^2}{12} + \frac{(B * SIZE\ WIDTH_{(y)})^2}{12}}$$

where A and B are the same as in the regression equation, size widths x and y are the size category interval widths for the key dimensions, and 1/12 is Sheppard's correction for grouping.

Since the sample used provides the necessary components to compute the SE EST, A, and B, the only actual variables left, are the size widths.

Again, using the 6-size total body program, the small regular size, the range for stature as mentioned previously is from 58.5 to 62.99 inches, a total of 4.49 inches. This value constitutes the interval width for stature for that size. The range for weight is from 100 to 129.99 a width of 29.99 pounds. Plugging these values into the SZ-SD equation for crotch height along with the already given values for the SE EST (.868), A (.609) and B (-.008) gives:

$$\begin{array}{l} \text{Crotch Height} \\ SZ\ SD = \sqrt{(.868)^2 + \frac{(.609 * 4.49)^2}{12} + \frac{(-.008 * 29.99)^2}{12}} = 1.175 \end{array}$$

This value rounds to 1.18 which is the value to be found on Table 96 in Chapter IV. Since each size category within a given size program was selected so that the interval widths of the key dimensions were the same, the SZ-SD will be the same for each size within a program. Thus, size small long in the 6-size total body program has the same SZ-SD for crotch height as small regular because the interval width for stature is also 4.49 inches and for weight is also 29.99 pounds.

Once the mid-size value and the SZ-SD were computed for each dimension, these statistics were employed to create the range-to-be-accommodated values. These values represent approximately the 5th to 95th percentile values within a size and are the mid-size values plus or minus 1.67 SZ-SD. The SZ-SD functions in the same way as the total sample standard deviation.

The last column of values found on the sizing tables contains recommended values. Those values are predicted in the same way as the mid-size values except that they were computed from the largest key dimension sizes in the category. Thus, for size small regular in the 6-size total body program, 62.99 inches and 129.99 pounds were used as input for each dimension's equation. The result is a list of dimension sizes each of which is the most likely size for a woman of that stature and weight. These values are both additive and proportionately realistic.

If the designer desires values at some other point, the regression equations provided can be used. For example, the designer may desire values at the small end of a size category for a group of dimensions. The smaller key dimension



values can simply be inserted into the appropriate equations. Indeed, supplied with the procedures described in this report and the regression equations, the designer can create a complete set of values for one or more additional sizes and even create entire new size programs.

In the tables which follow, the first column lists the name of the variable to be predicted followed by its variable number and its multiple correlation coefficient (Mult-R) with the key dimensions. This statistic indicates the amount of the dimension to be predicted which is controlled by the key dimensions.

Following the Mult-R are three columns which make up the regression equations.

The result obtained by plugging the given key dimension values into these equations equals the size of the variable to be predicted. To illustrate, the following is a reproduction of the information provided for axilla height in the bust circumference/stature table:

Axilla Height	4	.969	.007X+	.828Y+	-4.826	.543
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The number, 4, is the variable number; .969 is the Mult-R; (.007X) + (.828Y) + (-4.826) is the regression equation; and .543 is the SE EST. The total regression equation should actually be read:

$$\text{Axilla Height (in)} = .007 \text{ Bust Circumference (in)} + .828 \text{ Stature (in)} - 4.826.$$

TABLE B-1  
CORRELATIONS AND REGRESSION EQUATIONS  
FOR THE UPPER BODY  
X = BUST CIRCUMFERENCE; Y = STATURE  
(UNITS ARE INCHES OR POUNDS)

WEIGHT		MULT-R	- - - THE EQUATIONS - - -			SE EST
	1	.882	5.428*X+	2.657*Y+-226.772		8.837
***HEIGHTS***						
AXILLA HEIGHT	4	.969	.007*X+	.828*Y+	-4.826	.543
BUSTPOINT HEIGHT	5	.938	-.049*X+	.820*Y+	-4.351	.765
BUTTOCK HEIGHT	8	.830	.024*X+	.589*Y+	-5.590	1.026
CERVICALE HEIGHT	71	.976	.058*X+	.871*Y+	-2.324	.506
CROTCH HEIGHT	7	.863	-.040*X+	.588*Y+	-6.248	.871
SHOULDER HEIGHT	3	.970	.059*X+	.877*Y+	-5.757	.571
STATURE	2	1.000	0.000*X+	1.000*Y+	0.000	.000
WAIST HEIGHT	6	.898	-.036*X+	.724*Y+	-5.272	.903
***LENGTHS***						
ACROMION - AXILLA	72	.502	.052*X+	.049*Y+	-.932	.346
AXILLA TO WAIST	50	.284	.007*X+	.108*Y+	1.957	.947
CERVICALE-ACROMION	73	.050	-.000*X+	-.006*Y+	3.434	.298
CERV. - BUSTPOINT	74	.404	.107*X+	.051*Y+	2.027	.736
CERVICALE-BUTTOCK	78	.593	.035*X+	.283*Y+	3.267	1.021
NECK TO BUSTPOINT	49	.640	.195*X+	.043*Y+	.441	.629
SLEEVE INSEAM	51	.748	-.025*X+	.305*Y+	-.943	.683
SLEEVE OUTSEAM	52	.782	.006*X+	.354*Y+	-1.745	.727
SHOULDER TO ELBOW	13	.810	.016*X+	.213*Y+	-.996	.404
WAIST BACK	47	.521	.013*X+	.208*Y+	2.288	.890
WAIST FRONT	48	.452	.112*X+	.122*Y+	2.755	.920

TABLE B-1 (CONT'D)  
CORRELATIONS AND REGRESSION EQUATIONS  
FOR THE UPPER BODY  
X = BUST CIRCUMFERENCE; Y = STATURE  
(UNITS ARE INCHES OR POUNDS)

MULT-R			- - - THE EQUATIONS - - -			SE EST
***CIRCUMFERENCES***						
ARM CIRC AT SCYE	32	.783	.268*X+	.075*Y+	.657	.586
BICEPS CIRC, FLXD	33	.719	.254*X+	.013*Y+	.925	.621
BUST CIRCUMFERENCE	27	1.000	1.000*X+	0.000*Y+	0.000	.000
BUST-WAIST, CIRC.	79	.228	.156*X+	-.020*Y+	2.644	1.628
CHEST CIRC AT SCYE	26	.884	.695*X+	.063*Y+	5.532	.939
CHEST C BELOW BUST	28	.865	.659*X+	.056*Y+	2.970	.975
ELBOW CIRC FLXD	34	.607	.101*X+	.092*Y+	.790	.505
FOREARM CIRC, FLXD	35	.661	.141*X+	.045*Y+	1.919	.448
HIP CIRCUMFERENCE	30	.751	.641*X+	.252*Y+	-.814	1.638
NECK CIRCUMFERCNC	24	.608	.125*X+	.057*Y+	4.719	.489
SHOULDER CIRCUMFER	25	.834	.666*X+	.118*Y+	8.837	1.162
VERTICAL TRUNK CIR	31	.810	.554*X+	.599*Y+	2.867	1.666
WAIST CIRCUMFERENC	29	.793	.844*X+	.020*Y+	-2.644	1.628
WRIST CIRCUMFERENC	36	.599	.042*X+	.039*Y+	1.849	.215
***ARCS***						
BACK ARC, BUST	44	.849	.417*X+	.007*Y+	1.628	.649
BACK ARC, HIP	46	.648	.338*X+	.103*Y+	.336	1.107
BACK ARC, WAIST	45	.776	.417*X+	.008*Y+	-1.071	.849
INTERSCYE BACK	42	.497	.157*X+	.063*Y+	5.428	.799
INTERSCYE FRONT	43	.571	.118*X+	.076*Y+	4.099	.560
SHOULDER LENGTH	41	.374	.005*X+	.060*Y+	1.911	.387
***DEPTHS AND BREADTHS***						
BUST DEPTH	18	.906	.320*X+	-.019*Y+	-.880	.369
CHEST BREADTH	20	.861	.243*X+	.019*Y+	1.469	.366
HIP BREADTH	22	.644	.201*X+	.103*Y+	.355	.737
SHOULDER BREADTH	23	.795	.252*X+	.066*Y+	3.538	.527
WAIST BREADTH	21	.728	.270*X+	.029*Y+	-1.148	.655
WAIST DEPTH	19	.740	.258*X+	-.019*Y+	-.556	.577

TABLE B-2  
CORRELATIONS AND REGRESSION EQUATIONS  
FOR THE LOWER BODY  
X = HIP CIRCUMFERENCE; Y = CROTCH HEIGHT  
(UNITS ARE INCHES OR POUNDS)

		MULT-R	- - - THE EQUATIONS - - -			SE EST
WEIGHT	1	.920	$6.479 * X +$	$1.952 * Y +$	-170.128	7.368
***HEIGHTS***						
ANKLE HEIGHT	68	.570	$-.014 * X +$	$.136 * Y +$	.699	.329
BUTTOCK HEIGHT	8	.943	$.083 * X +$	$.968 * Y +$	.761	.610
CALF HEIGHT	10	.847	$.033 * X +$	$.430 * Y +$	-1.376	.481
CROTCH HEIGHT	7	1.000	$0.000 * X +$	$1.000 * Y +$	0.000	.000
KNEECAP HEIGHT	9	.920	$.024 * X +$	$.547 * Y +$	1.519	.408
SPHYRION HEIGHT	69	.299	$.010 * X +$	$.030 * Y +$	1.243	.204
STATURE	2	.883	$.212 * X +$	$1.203 * Y +$	20.040	1.202
WAIST HEIGHT	6	.889	$.094 * X +$	$1.012 * Y +$	5.933	.938
***LENGTHS***						
WAIST - BUTTOCK	75	.079	$.011 * X +$	$.044 * Y +$	5.172	1.102
WAIST - CROTCH	76	.248	$.094 * X +$	$.012 * Y +$	5.933	.938
WAIST - KNEECAP	77	.675	$.071 * X +$	$.465 * Y +$	4.414	.946
***CIRCUMFERENCES***						
ANKLE CIRCUMFERENC	40	.570	$.187 * X +$	$.026 * Y +$	3.376	.403
CALF CIRCUMFERENCE	39	.719	$.285 * X +$	$-.006 * Y +$	3.297	.681
HEEL/ANKLE CIRC.	63	.706	$.089 * X +$	$.166 * Y +$	3.778	.406
HIP CIRCUMFERENCE	30	1.000	$1.000 * X +$	$0.000 * Y +$	0.000	.000
KNEE CIRCUMFERENCE	38	.791	$.268 * X +$	$.060 * Y +$	1.832	.540
UPPER THIGH CIRCUM	37	.908	$.665 * X +$	$-.057 * Y +$	-.886	.749
WAIST CIRCUMFERENC	23	.701	$.765 * X +$	$-.062 * Y +$	1.052	1.904
***ARCS***						
BACK ARC, HIP	46	.866	$.513 * X +$	$-.032 * Y +$	.391	.728
BACK ARC, WAIST	45	.676	$.373 * X +$	$-.040 * Y +$	1.090	.992
CROTCH LENGTH	53	.654	$.557 * X +$	$.047 * Y +$	6.375	1.623
***DEPTHS AND BREADTHS***						
HIP BREADTH	22	.906	$.353 * X +$	$-.004 * Y +$	.790	.407
WAIST BREADTH	21	.664	$.254 * X +$	$.010 * Y +$	.225	.714
WAIST DEPTH	19	.633	$.225 * X +$	$-.044 * Y +$	.056	.664

TABLE B-3  
CORRELATIONS AND REGRESSION EQUATIONS  
FOR THE TOTAL BODY  
X = STATURE; Y = WEIGHT  
(UNITS ARE INCHES OR POUNDS)

WEIGHT	MULT-R	- - - THE EQUATIONS - - -				SE EST
1	1.000	0.000*X+	1.000*Y+	0.000	.000	
***HEIGHTS***						
ANKLE HEIGHT	68	.518	.090*X+	-.003*Y+	-1.131	.342
AXILLA HEIGHT	4	.969	.828*X+	.000*Y+	-4.629	.544
BUSTPOINT HEIGHT	5	.938	.834*X+	-.006*Y+	-6.077	.767
BUTTOCK HEIGHT	8	.831	.572*X+	.006*Y+	-4.444	1.024
CALF HEIGHT	10	.729	.250*X+	.002*Y+	-3.471	.620
CERVICALE HEIGHT	71	.976	.849*X+	.009*Y+	-.078	.505
CROTCH HEIGHT	7	.864	.609*X+	-.008*Y+	-7.963	.868
KNEECAP HEIGHT	9	.848	.353*X+	-.002*Y+	-3.512	.552
SHOULDER HEIGHT	3	.970	.857*X+	.009*Y+	-3.576	.573
SPHYRION HEIGHT	69	.403	.032*X+	.000*Y+	.441	.196
STATURE	2	1.000	1.000*X+	0.000*Y+	0.000	.000
WAIST HEIGHT	6	.898	.739*X+	-.006*Y+	-6.696	.902
***LENGTHS***						
ACROMION - AXILLA	72	.508	.030*X+	.008*Y+	1.052	.345
AXILLA TO WAIST	50	.284	.110*X+	-.000*Y+	2.068	.947
CERVICALE-ACROMION	73	.058	-.008*X+	.001*Y+	3.498	.298
CERV. - BUSTPOINT	74	.391	.015*X+	.016*Y+	5.999	.740
CERVICALE-BUTTOCK	78	.591	.278*X+	.003*Y+	4.366	1.023
NECK TO BUSTPOINT	49	.570	-.013*X+	.026*Y+	7.389	.672
SLEEVE INSEAM	51	.747	.312*X+	-.003*Y+	-1.839	.684
SLEEVE OUTSEAM	52	.782	.351*X+	.001*Y+	-1.477	.727
SHOULDER TO ELBOW	13	.809	.209*X+	.002*Y+	-.446	.404
WAIST BACK	47	.521	.200*X+	.003*Y+	2.868	.889
WAIST - BUTTOCK	75	.328	.167*X+	-.012*Y+	-2.252	1.044
WAIST - CROTCH	76	.364	.130*X+	.002*Y+	1.268	.902
WAIST FRONT	48	.439	.087*X+	.016*Y+	6.829	.927
WAIST - KNEECAP	77	.744	.386*X+	-.004*Y+	-3.184	.656

TABLE B-3 (CONT'D)  
CORRELATIONS AND REGRESSION EQUATIONS  
FOR THE TOTAL BODY  
X = STATURE; Y = WEIGHT  
(UNITS ARE INCHES OR POUNDS)

			MULT-R	- - - THE EQUATIONS - - -		SE EST
***CIRCUMFERENCES***						
ANKLE CIRCUMFERENC	40	.642	.013*X+	.016*Y+	5.242	.376
ARM CIRC AT SCYE	32	.822	-.034*X+	.044*Y+	11.168	.537
BICEPS CIRC, FLXD	33	.862	-.113*X+	.047*Y+	11.586	.454
BUST CIRCUMFERENCE	27	.840	-.265*X+	.127*Y+	34.946	1.351
BUST-WAIST, CIRC.	79	.081	.048*X+	-.008*Y+	4.770	1.666
CALF CIRCUMFERENCE	39	.789	-.060*X+	.045*Y+	11.727	.602
CHEST CIRC AT SCYE	26	.845	-.171*X+	.101*Y+	31.333	1.075
CHEST C BELOW BUST	28	.822	-.163*X+	.095*Y+	27.353	1.109
ELBOW CIRC FLXD	34	.676	.039*X+	.020*Y+	5.131	.468
FOREARM CIRC, FLXD	35	.786	-.027*X+	.027*Y+	7.910	.369
HEEL/ANKLE CIRC.	63	.718	.085*X+	.013*Y+	4.893	.399
HIP CIRCUMFERENCE	38	.907	-.094*X+	.126*Y+	26.948	1.045
KNEE CIRCUMFERENCE	38	.820	-.010*X+	.039*Y+	9.147	.505
NECK CIRCUMFERCNC	24	.649	.004*X+	.021*Y+	9.712	.469
SHOULDER CIRCUMFER	25	.844	-.132*X+	.183*Y+	34.356	1.130
UPPER THIGH CIRCUM	37	.910	-.182*X+	.098*Y+	21.192	.744
VERTICAL TRUNK CIR	31	.850	.350*X+	.097*Y+	25.363	1.497
WAIST CIRCUMFERENC	29	.827	-.313*X+	.135*Y+	30.175	1.500
WRIST CIRCUMFERENC	36	.666	.017*X+	.008*Y+	3.645	.200
***ARCS***						
BACK ARC, BUST	44	.788	-.124*X+	.058*Y+	16.818	.768
BACK ARC, HIP	46	.801	-.082*X+	.067*Y+	15.060	.871
BACK ARC, WAIST	45	.800	-.153*X+	.066*Y+	15.038	.808
CROTCH LENGTH	53	.644	.097*X+	.066*Y+	13.795	1.642
INTERSCYE BACK	42	.479	.010*X+	.023*Y+	11.260	.808
INTERSCYE FRONT	43	.576	.031*X+	.018*Y+	8.636	.558
SHOULDER LENGTH	41	.377	.055*X+	.001*Y+	2.184	.387
***DEPTHS AND BREADTHS***						
BUST DEPTH	18	.788	-.110*X+	.042*Y+	10.503	.535
CHEST BREADTH	20	.795	-.057*X+	.034*Y+	10.321	.436
HIP BREADTH	22	.802	-.017*X+	.042*Y+	9.388	.576
SHOULDER BREADTH	23	.817	-.031*X+	.040*Y+	13.291	.501
WAIST BREADTH	21	.758	-.078*X+	.043*Y+	9.362	.623
WAIST DEPTH	19	.779	-.122*X+	.042*Y+	9.528	.538